*ФИЗИОЛОГИЯ РАСТЕНИЙ, 2021, том 68, № 4*

**ДОПОЛНИТЕЛЬНЫЕ МАТЕРИАЛЫ**

**СОСТОЯНИЕ АНТИОКСИДАНТНОЙ СИСТЕМЫ И ДОЛГОВРЕМЕННОЕ ХРАНЕНИЕ ВОЛОСОВИДНЫХ КОРНЕЙ ТАБАКА С КОНСТИТУТИВНОЙ ЭКСПРЕССИЕЙ ГЕНА ГЛУТАТИОН-S-ТРАНСФЕРАЗЫ *ATGSTF11***

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**Таблица 1.** Последовательности праймеров использованных для ПЦР и ОТ-ПЦР анализа трансгенных растений и волосовидных корней

|  |  |  |
| --- | --- | --- |
| Праймер | Последовательность (5´-3´) | Применение |
| rolAF | ATGGAACTAGCCGGAATAAAC | Наличие гена  *rolA* |
| rolAR | CATCACGGTAGGCCCAGGAGAAGT |
| rolABF | AATTGCTACGAGGGGACGCTTTGT | Наличие генов  *rolA* и *rolB* |
| rolABR | ACGCTCCGCCGGTGGTCATACTTA |
| GUSF | CGTATGTTATTGCCGGGAAAAGTG | Наличие  репортерного гена *GUS* |
| GUSR | CAGAACATTACATTGACGCAGGTGAT |
| HPT1F | CTACACAGCCATCGGTCCAGA | Наличие  селективного гена *HPT* |
| HPT1R | AAGCCGACAGCAGCAGTTTCATC |
| AtGSTF | CAAAGATGGTGAACACAAGAAAGAG | Наличие  целевого гена  *AtGSTF11* |
| AtGSTR | ATAGTGTGAAGATCGACCAAAGTGA |
| AtGSTF | GACAAAGTATGCGGACCAAGGAA | ОТ-ПЦР гена  *AtGSTF11* |
| AtGSTR | GACGTAACCAAACCACTCAAACTG |
| EF1AF | GAATTGGTACTGTCCCTGTT | ОТ-ПЦР гена  *EF1-A* |
| EF1AR | TTGCCAATCTGTCCTGAAT |

**Таблица 2.** Данные по рисунку 2. Удельный прирост волосовидных корней табака в мм в условиях теплового стресса (+32°С; +35°С), засоления (150 мМ NaCl; 200 мМ NaCl) и действия 100 мкM CuSO4 и 100 мкМ Cd(CH3COO)2.

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| --- | --- | --- | --- | --- | --- |
| **Стандартные условия** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 14 | 25 | 20.5 | 44.5 | 48 |
|  | 15 | 28.5 | 24.5 | 41.5 | 48 |
|  | 14 | 27 | 22 | 38 | 52 |
|  | 16.5 | 28 | 25 | 40 | 50 |
|  | 15 | 28.5 | 22 | 42.5 | 51.5 |
|  | 10 | 29 | 22.5 | 39 | 53 |
|  | 9.5 | 25 | 25.5 | 47 | 54 |
|  | 15 | 28 | 24 | 46 | 49 |
|  | 15 | 28 | 24 | 41.5 | 50 |
|  | 25 | 25.5 | 25.5 | 47 | 53 |
|  | 17 | 27 | 23.5 | 42 | 51 |
|  | 18.5 | 24.5 | 25 | 41 | 55 |
|  | 15.5 | 29 | 20.5 | 41.5 | 54 |
|  | 15 | 23.5 | 22 | 45 | 52.5 |
|  | 16.5 | 28 | 22.5 | 46 | 57 |
|  | 17 | 26 | 26 | 40 | 53 |
|  | 16.5 | 27 | 21.5 | 38.5 | 48.5 |
|  | 15 | 28 | 20 | 45 | 48 |
|  | 18.5 | 29.5 | 24 | 47 | 56 |
|  | 16 | 30.5 | 23 | 41 | 51 |
|  | 25.5 | 31 | 20.5 | 44.5 | 53 |
|  | 24.5 | 29 | 25.5 | 43 | 51.5 |
|  | 21 | 28 | 23.5 | 46 | 48 |
|  | 21 | 29 | 26 | 44.5 | 51 |
|  | 18.5 | 28 | 20 | 39 | 49 |
|  | 14 | 28 | 21 | 46 | 57 |
|  | 15.5 | 25.5 | 19.5 | 45 | 48.5 |
|  | 16 | 27 | 20 | 44 | 55 |
|  | 22 | 26 | 20.5 | 38.5 | 54 |
|  | 17 | 25 | 34.5 | 41.5 | 58 |
|  | 18.5 | 28.5 | 20 | 46 | 34.5 |
|  | 22.5 | 25 | 22 | 40 | 52 |
|  | 15.5 | 29.5 | 26 | 41 | 50 |
|  | 15 | 24.5 | 23.5 | 21.5 | 57 |
|  | 16 | 27 | 10.5 | 46 | 54 |
|  | 14.5 | 28 | 22 | 44 | 54.5 |
|  | 19 | 28 | 25.5 | 38.5 | 57 |
|  | 18 | 28 | 25.5 | 41 | 58 |
|  | 14 | 27.5 | 22 | 44 | 54 |
|  | 18.5 | 29 | 23 | 43 | 50 |
|  | 13.5 | 25.5 | 22 | 40.5 | 52.5 |
|  | 22 | 25.5 | 24.5 | 44 | 53 |

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| --- | --- | --- | --- | --- | --- |
|  | 22.5 | 24.5 | 21.5 | 45 | 55 |
|  | 17.5 | 28 | 24.5 | 45 | 54 |
|  | 16.5 | 27 | 23.5 | 57.5 | 54 |
|  | 12.5 | 27.5 | 21.5 | 46 | 51 |
|  | 14 | 25 | 22 | 18 | 48 |
|  | 14.5 | 27 | 20 | 40.5 | 50.5 |
|  | 22 | 28.5 | 20.5 | 45 | 49 |
|  | 21 | 26 | 21 | 42.5 | 53 |
|  | 17.5 | 25.5 | 19.5 | 44 | 50 |
|  | 18 | 24.5 | 23 | 47 | 54.5 |
|  | 16 | 25 | 23 | 40 | 51 |
|  | 14 | 28 | 18.5 | 28.5 | 53 |
|  | 19.5 | 26.5 | 26 | 38 | 53 |
|  | 18 | 27 | 24 | 46 | 55.5 |
|  | 20.5 | 25.5 | 22.5 | 41 | 52 |
|  | 14.5 | 27 | 21.5 | 47 | 58 |
|  | 18 | 25 | 20 | 32 | 49 |
|  | 16 | 23.5 | 22.5 | 47 | 53 |
|  | 20.5 | 26 | 25 | 37.5 | 56.5 |
|  | 15.5 | 25 | 18 | 44 | 55 |
|  | 16.5 | 23.5 | 25 | 42 | 48 |
|  | 15 | 29 | 20.5 | 54.5 | 53 |
| **Среднее** | **17.1328** | **26.9141** | **22.5703** | **42.2422** | **52.2188** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** | **0.0000** | **0.0000** |
| **Гипертермия 32°С** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 10 | 12.5 | 14 | 17 | 14 |
|  | 10 | 11.5 | 16 | 15 | 13 |
|  | 8.5 | 10 | 14 | 15 | 12 |
|  | 8.4 | 11.5 | 13 | 21 | 14 |
|  | 8 | 11 | 14 | 15 | 12 |
|  | 9 | 12 | 13 | 18 | 12 |
|  | 8 | 10 | 15 | 14 | 14 |
|  | 9 | 12 | 16 | 14 | 15 |
|  | 8 | 9 | 15 | 15.5 | 14 |
|  | 8 | 11 | 14 | 19 | 15 |
|  | 9 | 12 | 13 | 15 | 13 |
|  | 10 | 14 | 13 | 18 | 13 |
|  | 8 | 11 | 12.5 | 12 | 12 |
|  | 9 | 12 | 13.5 | 16 | 12 |
|  | 9 | 13 | 16 | 21 | 13 |
|  | 11 | 13 | 12.5 | 18 | 13 |
|  | 11 | 14 | 13 | 13 | 13 |
|  | 11 | 11 | 13.5 | 22 | 14 |
|  | 8 | 12 | 13.5 | 23 | 14 |
|  | 8 | 13 | 14 | 15 | 13 |
|  | 9 | 13 | 14 | 18 | 16 |
|  | 9 | 12 | 15 | 15 | 19 |

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| --- | --- | --- | --- | --- | --- |
|  | 10.5 | 12 | 12 | 16 | 14 |
|  | 10 | 11 | 13 | 15 | 18 |
|  | 10 | 9 | 15 | 31 | 16 |
|  | 8 | 10 | 16 | 21 | 13 |
|  | 9 | 10 | 12 | 21 | 13 |
|  | 9 | 11 | 15 | 29 | 14 |
|  | 8 | 13 | 18 | 28 | 13 |
|  | 9 | 12 | 13 | 13 | 14 |
|  | 8 | 12 | 11 | 12 | 13 |
|  | 9 | 12 | 12.5 | 21 | 13 |
|  | 10 | 12 | 14 | 24 | 15 |
|  | 10 | 13 | 15 | 22 | 14 |
|  | 9.5 | 13 | 14 | 16 | 18 |
|  | 11 | 12 | 13.5 | 27 | 13 |
|  | 10.5 | 12 | 12 | 20 | 24 |
|  | 10 | 12 | 11.5 | 22 | 13 |
|  | 8 | 12.5 | 13 | 16 | 21 |
|  | 8 | 11.5 | 16 | 23 | 13 |
|  | 8.5 | 13.5 | 15.5 | 16 | 18 |
|  | 7.5 | 12 | 11 | 13 | 13 |
|  | 8 | 11 | 18 | 14 | 13 |
|  | 9 | 12 | 14 | 21 | 14 |
|  | 8 | 10 | 16 | 16.5 | 13 |
|  | 9 | 13 | 12 | 21 | 14 |
|  | 8 | 11 | 14 | 17.5 | 13 |
|  | 9 | 11 | 12.5 | 15 | 18 |
|  | 8 | 11 | 13 | 14 | 14 |
|  | 8 | 10 | 12 | 21 | 13 |
|  | 9 | 10 | 11.5 | 16 | 18 |
|  | 8 | 11.5 | 12 | 19 | 16 |
|  | 8.5 | 9 | 11.5 | 14 | 13 |
|  | 7.5 | 12 | 12.5 | 16.5 | 14 |
|  | 8.5 | 11 | 12 | 16 | 15 |
|  | 8.5 | 12 | 13.5 | 13.4 | 14.5 |
|  | 8 | 11 | 14 | 15 | 16.5 |
|  | 9 | 12 | 13 | 17.5 | 14 |
|  | 9 | 10 | 14 | 16.5 | 13 |
|  | 8 | 13 | 13.5 | 15 | 13 |
|  | 10 | 12 | 12.5 | 19 | 13 |
|  | 11 | 11 | 12 | 20 | 16 |
|  | 9 | 12 | 13.5 | 22 | 17 |
|  | 8 | 11 | 14 | 19 | 12 |
| **Среднее** | **8.9281** | **11.6016** | **13.6172** | **18.0375** | **14.3750** |
| **Коэффициент**  **Duncan** |  | **0.0193** | **0.0004** | **0.0000** | **0.0000** |
| **Гипертермия 35°С** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 0.5 | 6.5 | 5 | 8.5 | 1.5 |
|  | 0.5 | 5 | 9 | 8 | 0 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 6 | 6 | 7 | 1 |
|  | 0 | 9 | 8 | 8 | 1 |
|  | 1 | 9 | 7 | 9.5 | 1.5 |
|  | 0 | 7 | 7.5 | 8 | 2 |
|  | 0.5 | 9 | 5 | 8 | 1.5 |
|  | 0 | 5 | 6 | 9 | 0 |
|  | 0.5 | 6.5 | 8 | 8 | 1.5 |
|  | 0 | 6 | 7 | 9 | 1 |
|  | 0.5 | 7 | 9 | 8 | 1.5 |
|  | 1 | 8 | 8.5 | 7 | 1.5 |
|  | 0.5 | 9 | 6 | 7.5 | 2 |
|  | 1 | 5 | 5.6 | 8 | 2.5 |
|  | 0.5 | 5 | 5 | 9 | 1.5 |
|  | 0.5 | 8 | 5 | 8 | 1.5 |
|  | 0.5 | 5.5 | 4.5 | 5 | 1.5 |
|  | 0.5 | 7.5 | 6 | 6 | 3 |
|  | 0.1 | 5 | 8 | 8 | 2.5 |
|  | 0.1 | 7 | 8 | 8.5 | 0.5 |
|  | 0 | 5 | 5.5 | 9 | 2.5 |
|  | 0 | 12 | 5 | 8 | 2 |
|  | 1 | 9 | 9 | 7 | 1.5 |
|  | 0 | 8 | 6 | 10 | 1.5 |
|  | 0.4 | 6 | 7 | 11 | 1 |
|  | 0 | 12.5 | 7.5 | 6.5 | 2 |
|  | 0.5 | 5 | 8 | 9 | 1.5 |
|  | 0.5 | 8 | 6 | 8 | 1 |
|  | 0 | 8 | 4.5 | 7 | 2 |
|  | 0.5 | 8 | 4.5 | 6 | 1.5 |
|  | 0.5 | 7.5 | 7 | 6 | 2 |
|  | 0.5 | 6 | 7 | 8 | 1 |
|  | 0 | 7.5 | 6.5 | 8 | 1 |
|  | 0 | 6 | 5 | 9 | 2 |
|  | 0 | 8 | 5.5 | 9 | 1.5 |
|  | 0.5 | 8 | 5.5 | 11 | 2 |
|  | 0.5 | 11 | 5 | 12 | 2.5 |
|  | 0 | 9 | 4.5 | 23 | 1.5 |
|  | 0.5 | 15 | 5 | 8 | 2.5 |
|  | 0 | 8 | 6.5 | 6 | 1.5 |
|  | 0 | 5.5 | 7 | 15 | 1 |
|  | 0.5 | 13 | 8.5 | 8 | 1 |
|  | 0.5 | 12 | 4 | 9.5 | 2 |
|  | 1 | 8.5 | 4 | 12 | 2.5 |
|  | 0.5 | 7 | 6 | 7 | 1 |
|  | 0 | 9.5 | 4.5 | 6 | 1.5 |
|  | 0.5 | 8 | 4 | 7 | 2 |
|  | 0 | 6.5 | 4.5 | 7 | 2 |
|  | 0.5 | 5.5 | 4 | 7.5 | 2.5 |
|  | 1 | 8 | 5 | 5 | 1.5 |
|  | 0 | 5 | 6 | 11 | 1.5 |
|  | 1 | 8 | 6 | 12 | 2 |

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| --- | --- | --- | --- | --- | --- |
|  | 0.5 | 7.5 | 8 | 6 | 2.5 |
|  | 0 | 7 | 10.5 | 5.5 | 2 |
|  | 0.5 | 11 | 6 | 6 | 2 |
|  | 1 | 9 | 8 | 8 | 1 |
|  | 0 | 8 | 5 | 14 | 1 |
|  | 0 | 8 | 8 | 6.5 | 2.5 |
|  | 0.5 | 8 | 4 | 6 | 2 |
|  | 0 | 9.5 | 4 | 8 | 1.5 |
|  | 0.5 | 8 | 6 | 9 | 2 |
|  | 0 | 6 | 5 | 10.5 | 2 |
|  | 0.5 | 6.5 | 7 | 10 | 2 |
|  | 0 | 5.5 | 6 | 8 | 2 |
| **Среднее** | **0.3531** | **7.7188** | **6.1813** | **8.5000** | **1.6563** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** | **0.0000** | **0.0071** |
| **Засоление 150 мМ NaCl** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 12 | 29.5 | 19 | 23 | 50.5 |
|  | 11 | 30 | 17 | 22 | 53 |
|  | 12 | 31.5 | 18.5 | 26 | 44 |
|  | 11 | 32 | 18.5 | 25 | 44.5 |
|  | 12.5 | 32.5 | 18 | 25.5 | 45.5 |
|  | 14 | 32.5 | 20 | 24.5 | 42.5 |
|  | 11 | 33 | 21 | 26 | 46 |
|  | 14 | 30 | 21 | 27.5 | 45 |
|  | 15 | 28 | 22.5 | 29.5 | 46.5 |
|  | 14.5 | 32 | 23.5 | 24 | 49.5 |
|  | 13 | 31 | 19.5 | 21 | 53 |
|  | 12 | 33.5 | 17.5 | 25 | 49 |
|  | 12 | 31 | 19 | 21 | 50 |
|  | 12.5 | 29 | 20 | 23 | 48 |
|  | 13 | 30 | 21.5 | 24.5 | 50 |
|  | 12.5 | 28 | 21 | 26.5 | 43.5 |
|  | 13 | 33 | 23.5 | 26 | 43 |
|  | 12 | 29 | 20.5 | 29 | 41.5 |
|  | 11 | 35 | 18 | 33 | 43 |
|  | 13 | 38 | 19 | 35 | 43 |
|  | 12.5 | 39 | 20 | 25 | 49 |
|  | 13 | 37 | 16.5 | 28 | 42 |
|  | 12 | 33.5 | 22.5 | 31.5 | 46 |
|  | 12 | 38 | 18 | 21.5 | 44.5 |
|  | 14 | 38.4 | 20.5 | 24.5 | 47 |
|  | 12 | 33 | 19.5 | 25 | 49 |
|  | 13 | 31 | 18 | 25.5 | 49 |
|  | 14 | 32.5 | 32 | 24.5 | 43 |
|  | 12 | 32 | 18.5 | 28.5 | 53 |
|  | 13 | 33 | 18 | 23 | 51.5 |
|  | 13.5 | 28 | 33 | 29.5 | 53 |
|  | 12 | 35 | 21 | 31 | 51 |

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| --- | --- | --- | --- | --- | --- |
|  | 12 | 29 | 26.5 | 24 | 44.5 |
|  | 12.5 | 33 | 23 | 33.5 | 49 |
|  | 14 | 30 | 20 | 24 | 53 |
|  | 11.5 | 35 | 22 | 25 | 51 |
|  | 14 | 33 | 25 | 26.5 | 49.5 |
|  | 12 | 32 | 22.5 | 24 | 46 |
|  | 13.5 | 31 | 25.5 | 26 | 51 |
|  | 12 | 40 | 20.5 | 25.5 | 46 |
|  | 13 | 41.5 | 25 | 25.5 | 52 |
|  | 12 | 38 | 18.5 | 24 | 44 |
|  | 12 | 35 | 20.5 | 26.5 | 50.5 |
|  | 12.5 | 33.5 | 23 | 28 | 48 |
|  | 14 | 30.5 | 21 | 29 | 49 |
|  | 14.5 | 31 | 20 | 28.5 | 46 |
|  | 14 | 39 | 19 | 24.5 | 49 |
|  | 13.5 | 33 | 19.5 | 22.5 | 52.5 |
|  | 12 | 36 | 18.5 | 27 | 47.5 |
|  | 11 | 35 | 18.5 | 26.5 | 46 |
|  | 10.5 | 31 | 18 | 25 | 47 |
|  | 14 | 29 | 20 | 25.5 | 48.5 |
|  | 12 | 26 | 23 | 24.5 | 53 |
|  | 13 | 16 | 22 | 23.5 | 53 |
|  | 11.5 | 17 | 21 | 24 | 49 |
|  | 13.5 | 28 | 17.5 | 25 | 48.5 |
|  | 12 | 39 | 18 | 26 | 51.5 |
|  | 13 | 38 | 16 | 27 | 51 |
|  | 14 | 30.5 | 14 | 27.5 | 48 |
|  | 13 | 31 | 19.5 | 26.5 | 52 |
|  | 12 | 32 | 18 | 26 | 42.5 |
|  | 13 | 33 | 21 | 26.5 | 52.5 |
|  | 12.5 | 33.5 | 25.5 | 26 | 45 |
|  | 13 | 31 | 25 | 26 | 44 |
| **Среднее** | **12.6719** | **32.3344** | **20.6719** | **26.0000** | **47.9531** |
| **КоэффициентDuncan** |  | **0.0000** | **0.0000** | **0.0000** | **0.0000** |
| **Засоление 200 мМ NaCl** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 5 | 6.5 | 15.5 | 18.5 | 19 |
|  | 5.5 | 7.5 | 16.5 | 22 | 25 |
|  | 5 | 8.5 | 18 | 23 | 21 |
|  | 5.5 | 8 | 17.5 | 20 | 16 |
|  | 4.5 | 7 | 16 | 18 | 18 |
|  | 5.5 | 6.5 | 15 | 15 | 15 |
|  | 5 | 5.5 | 14.5 | 16 | 18.5 |
|  | 6.5 | 6 | 11 | 17 | 19 |
|  | 6 | 6.5 | 11.5 | 17.5 | 23.5 |
|  | 5.5 | 7 | 11.2 | 16 | 22 |
|  | 4 | 8 | 7.5 | 20 | 21 |
|  | 6.5 | 7.5 | 12 | 22.5 | 18 |
|  | 6 | 8 | 13.5 | 15 | 14 |

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|  | 4.5 | 8.5 | 16.5 | 16.5 | 25 |
|  | 4.5 | 9.5 | 11.5 | 14 | 15.5 |
|  | 6.5 | 10 | 8.5 | 14.5 | 18.5 |
|  | 7.5 | 10.5 | 17 | 16 | 14 |
|  | 7 | 8 | 18.5 | 10.5 | 15.5 |
|  | 5 | 8.5 | 15.5 | 11.5 | 16 |
|  | 6 | 7.5 | 15 | 16.5 | 22 |
|  | 5 | 8 | 16.5 | 18 | 17 |
|  | 4.5 | 7 | 11 | 19.5 | 15 |
|  | 5 | 6.5 | 14.5 | 15 | 22.5 |
|  | 5.5 | 6 | 13.5 | 22 | 16 |
|  | 6 | 8 | 18 | 23 | 18 |
|  | 5 | 5.5 | 8 | 22.5 | 19.5 |
|  | 5.5 | 5 | 16.5 | 19 | 15.5 |
|  | 6 | 7.5 | 15 | 22 | 15.5 |
|  | 6.5 | 5 | 19 | 23.5 | 15 |
|  | 5 | 5.5 | 11 | 24 | 20.5 |
|  | 4.5 | 6 | 7.5 | 26 | 22 |
|  | 5.5 | 6.5 | 15.5 | 28 | 14.5 |
|  | 3.5 | 8 | 15 | 22 | 21 |
|  | 4.5 | 9.5 | 16 | 21 | 28 |
|  | 6 | 5 | 14.5 | 19 | 14 |
|  | 4.5 | 6.5 | 13 | 15 | 16 |
|  | 5 | 5 | 18 | 18.5 | 14 |
|  | 6 | 5 | 15 | 18.5 | 18 |
|  | 5 | 7.5 | 13 | 19 | 14.5 |
|  | 5.5 | 6.5 | 14 | 20 | 24 |
|  | 6 | 5 | 12.5 | 14 | 22 |
|  | 6 | 4.5 | 18.5 | 14.5 | 22 |
|  | 6.5 | 10.5 | 13 | 16 | 21.5 |
|  | 6.5 | 6 | 15.5 | 22.5 | 23 |
|  | 5.5 | 6 | 9.5 | 13 | 16.5 |
|  | 4.5 | 7 | 15 | 25.5 | 13.5 |
|  | 4.5 | 6 | 16.5 | 23.5 | 17.5 |
|  | 6.5 | 6.5 | 18 | 22.5 | 18.5 |
|  | 5 | 5 | 15 | 18 | 19 |
|  | 6.5 | 5.5 | 15.5 | 18.5 | 19.5 |
|  | 5.5 | 5 | 14 | 23.5 | 22 |
|  | 4.5 | 4.5 | 16.5 | 22 | 21.5 |
|  | 5.5 | 6.5 | 9.5 | 24 | 15 |
|  | 6.5 | 7 | 19 | 15 | 16.5 |
|  | 6 | 7.5 | 15.5 | 22.5 | 23 |
|  | 5 | 6 | 11.5 | 18 | 13.5 |
|  | 5.5 | 5.5 | 14.5 | 14.5 | 16 |
|  | 7 | 7 | 16 | 13 | 15.5 |
|  | 5 | 7.5 | 18 | 15 | 14.5 |
|  | 5 | 6.5 | 17 | 19 | 14 |
|  | 7.5 | 5 | 18 | 23.5 | 14.5 |
|  | 6 | 6 | 15 | 25 | 20 |
|  | 5.5 | 5.5 | 15.5 | 17 | 21.5 |

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|  | 4.5 | 7.5 | 13 | 16.5 | 22 |
| **Среднее** | **5.5000** | **6.7734** | **14.5109** | **18.9375** | **18.4297** |
| **Коэффициент**  **Duncan** |  | **0.3275** | **0.0157** | **0.0000** | **0.0000** |
| **Загрязнение тяжелыми металлами 100 мкМ CuSO4** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 10.5 | 50 | 21 | 41 | 26 |
|  | 19.5 | 45 | 24 | 36 | 21.5 |
|  | 15 | 40 | 15.5 | 38 | 23.5 |
|  | 11 | 25 | 9.5 | 60 | 21 |
|  | 9 | 25 | 29.5 | 35.5 | 21 |
|  | 13 | 30 | 19 | 36 | 21.5 |
|  | 10 | 50 | 20 | 38 | 25 |
|  | 5.5 | 20 | 25 | 38.5 | 25.5 |
|  | 10 | 35 | 21 | 41 | 24.5 |
|  | 9.5 | 20 | 30 | 37.5 | 21 |
|  | 15 | 35 | 22 | 40 | 21 |
|  | 15 | 25 | 28 | 37 | 27 |
|  | 25 | 50 | 25 | 38 | 21 |
|  | 21.5 | 45 | 25 | 39 | 26.5 |
|  | 15 | 30 | 17.5 | 35.5 | 26 |
|  | 11 | 35 | 14 | 41 | 26 |
|  | 6 | 20 | 35 | 39 | 24 |
|  | 8.5 | 25 | 20 | 35 | 21.5 |
|  | 15 | 25 | 13 | 63.5 | 24 |
|  | 10 | 30 | 20 | 42.5 | 27 |
|  | 15 | 30 | 23.5 | 36 | 25 |
|  | 10 | 35 | 10 | 35 | 23.5 |
|  | 15 | 40 | 21 | 55 | 23 |
|  | 19 | 45 | 20 | 37.5 | 23.5 |
|  | 10 | 35 | 24 | 41 | 24 |
|  | 14.5 | 30 | 28 | 35 | 21 |
|  | 14.5 | 25 | 15 | 38.5 | 24 |
|  | 11 | 30 | 20 | 35 | 18.5 |
|  | 21 | 35 | 19 | 39 | 24 |
|  | 5 | 30 | 18 | 36 | 22.5 |
|  | 21.5 | 35 | 17.5 | 39.5 | 21 |
|  | 11 | 40 | 22 | 41.5 | 26 |
|  | 14 | 35 | 19 | 41 | 24.5 |
|  | 13 | 30 | 22.5 | 37 | 26 |
|  | 15 | 35 | 20 | 40.5 | 21 |
|  | 10 | 28.5 | 19.5 | 40 | 18.5 |
|  | 9 | 24.5 | 21.5 | 37 | 22 |
|  | 8 | 19.5 | 14.5 | 35 | 21 |
|  | 11.5 | 34 | 20 | 35 | 33.5 |
|  | 5.5 | 33 | 9.5 | 39 | 27 |
|  | 5 | 27 | 19.5 | 42.5 | 26.5 |
|  | 15 | 51 | 20 | 38.5 | 26 |
|  | 4.5 | 34.5 | 21.5 | 39 | 27 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 15 | 35 | 9 | 35 | 22 |
|  | 20 | 29.5 | 19 | 40.5 | 23 |
|  | 9.5 | 41 | 15 | 30 | 23 |
|  | 10.5 | 42 | 22 | 36.5 | 23.5 |
|  | 15 | 35 | 18 | 40 | 22 |
|  | 14 | 39.5 | 15 | 36 | 24.5 |
|  | 10 | 49.5 | 17 | 40 | 23 |
|  | 14.5 | 34.5 | 23 | 34.5 | 27 |
|  | 13 | 31 | 22 | 39 | 21 |
|  | 10 | 47 | 24 | 42.5 | 22 |
|  | 20.5 | 23 | 18.5 | 38 | 21 |
|  | 14.5 | 37 | 20.5 | 40.5 | 23 |
|  | 10 | 24 | 15 | 38 | 20.5 |
|  | 11 | 38 | 18.5 | 39 | 26.5 |
|  | 10 | 28 | 20 | 37 | 25 |
|  | 15.5 | 29.5 | 25 | 34.5 | 24 |
|  | 26.5 | 30 | 20 | 35 | 18.5 |
|  | 10 | 26 | 14 | 37 | 22 |
|  | 14.5 | 26.5 | 20 | 35 | 19.5 |
|  | 5 | 19.5 | 20 | 39.5 | 22.5 |
|  | 5 | 24.5 | 25 | 35.5 | 22 |
| **Среднее** | **12.6094** | **33.0000** | **20.0000** | **38.8828** | **23.4219** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0009** | **0.0000** | **0.0003** |
| **Загрязнение тяжелыми металлами 100 мкМ Cd(CH3COO)2** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 0 | 7 | 20.5 | 21 | 27.5 |
|  | 0.5 | 9 | 19 | 20.5 | 29 |
|  | 0 | 13 | 17.5 | 19 | 28.5 |
|  | 0 | 8 | 16 | 14 | 28 |
|  | 0.5 | 14 | 20.5 | 21.5 | 31 |
|  | 1 | 5 | 11 | 19.5 | 33 |
|  | 0.5 | 14 | 13 | 15.5 | 29.5 |
|  | 1 | 11.5 | 14.5 | 20 | 36.5 |
|  | 1.5 | 12 | 16.5 | 17 | 35 |
|  | 1 | 6 | 15 | 16.5 | 30.5 |
|  | 1 | 9 | 17.5 | 15 | 36 |
|  | 0.5 | 12 | 19.5 | 18.5 | 35 |
|  | 1 | 8 | 14 | 16 | 34 |
|  | 0.5 | 11 | 15.5 | 15.5 | 30 |
|  | 0 | 7 | 20 | 19 | 32 |
|  | 0 | 9.5 | 14 | 21.5 | 29.5 |
|  | 0 | 13.5 | 12.5 | 21 | 32.5 |
|  | 0 | 6 | 14 | 18.5 | 28.5 |
|  | 1.5 | 9 | 21.5 | 19 | 33 |
|  | 1.5 | 6 | 19 | 13.5 | 31.5 |
|  | 1 | 14 | 19.5 | 16 | 32 |
|  | 1 | 9 | 15.5 | 17 | 35.5 |
|  | 1.5 | 14 | 13 | 14.5 | 29 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 1 | 13 | 19 | 20 | 36 |
|  | 0.5 | 14 | 15 | 15 | 35 |
|  | 0.5 | 14 | 16.5 | 16.5 | 35.5 |
|  | 0 | 7 | 16 | 18 | 34 |
|  | 0.5 | 7 | 17.5 | 14 | 32 |
|  | 0.5 | 12 | 17 | 17 | 35 |
|  | 0 | 15 | 18 | 21 | 30 |
|  | 1 | 10.5 | 14.5 | 14.5 | 32.5 |
|  | 0 | 5.5 | 19.5 | 18 | 33 |
|  | 0 | 8 | 18 | 12 | 38 |
|  | 1.5 | 7.5 | 12 | 15 | 33 |
|  | 0 | 8 | 20 | 20.5 | 28.5 |
|  | 0 | 15.5 | 15.5 | 11 | 29.5 |
|  | 1.5 | 15 | 14 | 16 | 35.5 |
|  | 1.5 | 5 | 14 | 15.5 | 32.5 |
|  | 0.5 | 11 | 18 | 16.5 | 34 |
|  | 1 | 6.5 | 16 | 15.5 | 30 |
|  | 1 | 8 | 12.5 | 16 | 33.5 |
|  | 0 | 8 | 13 | 14 | 29 |
|  | 0.5 | 10 | 16 | 11.5 | 31 |
|  | 0.5 | 13.5 | 15.5 | 19 | 33.5 |
|  | 1.5 | 11 | 16.5 | 15 | 28 |
|  | 0.5 | 13 | 19.5 | 11 | 33 |
|  | 1 | 7.5 | 14 | 19 | 40 |
|  | 1.5 | 13.5 | 16 | 18.5 | 28 |
|  | 0.5 | 9 | 13 | 18 | 31 |
|  | 0.5 | 15 | 20.5 | 16 | 32.5 |
|  | 0 | 8 | 19 | 22.5 | 36 |
|  | 0.5 | 6 | 13.5 | 13.5 | 32.5 |
|  | 1 | 15 | 19 | 15 | 34 |
|  | 1 | 15 | 15 | 18 | 30.5 |
|  | 1.5 | 6.5 | 18.5 | 17 | 33.5 |
|  | 1 | 13.5 | 14.5 | 16.5 | 31 |
|  | 0.5 | 5 | 14 | 20 | 29 |
|  | 0.5 | 6 | 15.5 | 17 | 32 |
|  | 0 | 5 | 14.5 | 14.5 | 35.5 |
|  | 0 | 9 | 15 | 19.5 | 30 |
|  | 0 | 11.5 | 14.5 | 16.5 | 32.5 |
|  | 0 | 11 | 13 | 17.5 | 33.5 |
|  | 0.5 | 10.5 | 18.5 | 15 | 30 |
|  | 1 | 8.5 | 17 | 15.5 | 31 |
| **Среднее** | **0.6328** | **10.0156** | **16.2109** | **16.8984** | **32.2109** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

**Таблица 3.** Данные по рисунку 2. Сырая масса волосовидных корней табака в условиях теплового стресса (+32°С; +35°С), засоления (150 мМ NaCl; 200 мМ NaCl) и действия 100 мкM CuSO4 и 100 мкМ Cd(CH3COO)2.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Стандартные условия** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 19 | 24.5 | 22.4 | 23.6 | 18.8 |
|  | 18.6 | 24.6 | 25.4 | 25.3 | 19.8 |
|  | 17.8 | 22.4 | 21.5 | 24.6 | 17.5 |
|  | 19 | 25.4 | 25.6 | 22.2 | 19.1 |
|  | 18.7 | 22.4 | 24.9 | 25.7 | 17.6 |
|  | 19.1 | 18.5 | 20.1 | 21.9 | 18.4 |
|  | 18.1 | 22.4 | 23.6 | 25.3 | 19.6 |
|  | 17.2 | 23.1 | 22.6 | 23.8 | 18.5 |
|  | 19.1 | 18.8 | 23.2 | 24.5 | 18.1 |
|  | 17.8 | 24.1 | 23.9 | 24.3 | 19.4 |
|  | 19.1 | 21.8 | 23.4 | 25.5 | 18.2 |
|  | 18.5 | 24.8 | 24.4 | 25.7 | 20.1 |
|  | 18.2 | 22.9 | 22.3 | 25.3 | 18.1 |
| **Среднее** | **18.4769** | **22.7462** | **23.3308** | **24.4385** | **18.7077** |
| **Коэффициент**  **Duncan** |  | **0.0001** | **0.0028** | **0.0002** | **0.6302** |
| **Гипертермия 32°С** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 3.9 | 6.3 | 7.4 | 6.9 | 9.9 |
|  | 2.9 | 6.6 | 8.6 | 7.1 | 8.1 |
|  | 2.7 | 6.9 | 7.9 | 8.1 | 8.1 |
|  | 3 | 6.4 | 7.8 | 7.6 | 8.1 |
|  | 4 | 9.5 | 8.1 | 7.7 | 8.3 |
|  | 4.7 | 7.5 | 7.9 | 6.5 | 9.5 |
|  | 4 | 6.9 | 7.9 | 7 | 9.1 |
|  | 4.3 | 8.6 | 7.8 | 7.6 | 8 |
|  | 3.6 | 9.3 | 7.2 | 6.8 | 9.3 |
|  | 3.4 | 7.5 | 7.6 | 8.5 | 8.2 |
|  | 3 | 7.1 | 8 | 7.3 | 7.6 |
|  | 4.5 | 5.5 | 8.3 | 6.7 | 8.8 |
|  | 2.9 | 6.2 | 7.3 | 7.5 | 7.8 |
| **Среднее** | **3.6077** | **7.2538** | **7.8308** | **7.3308** | **8.5231** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** | **0.0000** | **0.0000** |
| **Гипертермия 35°С** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 0.2 | 2.4 | 1.9 | 2.2 | 3.4 |
|  | 0.2 | 2.9 | 1.8 | 2.4 | 3.2 |
|  | 0.5 | 2.2 | 1.9 | 2.8 | 3.1 |
|  | 0.6 | 1.8 | 1.8 | 2.3 | 3.2 |
|  | 0.8 | 1.9 | 2.1 | 2.5 | 3.3 |
|  | 0.2 | 2.6 | 1.7 | 1.8 | 2.8 |
|  | 0.8 | 2.5 | 1.9 | 1.6 | 2.9 |
|  | 0.1 | 2.4 | 1.8 | 2.2 | 3.1 |
|  | 0.8 | 1.8 | 2 | 1.8 | 2.9 |
|  | 0.3 | 1.9 | 1.9 | 2.1 | 3.2 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0.2 | 2 | 1.8 | 1.7 | 3.1 |
|  | 0.1 | 1.9 | 1.9 | 1.8 | 3.3 |
|  | 0.3 | 2.3 | 1.7 | 2.2 | 2.9 |
| **Среднее** | **0.3923** | **2.2000** | **1.8615** | **2.1077** | **3.1077** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** | **0.0000** | **0.0000** |
| **Засоление 150 мМ NaCl** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 6.1 | 10.1 | 13.6 | 10.1 | 14.3 |
|  | 7.8 | 9.7 | 8.6 | 10.4 | 9.1 |
|  | 7.6 | 9.8 | 13.7 | 11.7 | 12.9 |
|  | 6.3 | 7.1 | 13.5 | 9.4 | 12.3 |
|  | 6.2 | 8.7 | 12.3 | 10.2 | 12 |
|  | 6.2 | 8.3 | 10.5 | 12.5 | 12.8 |
|  | 5.3 | 9.3 | 10.1 | 10.9 | 13.1 |
|  | 8 | 8.9 | 11.2 | 10.3 | 10.4 |
|  | 6.3 | 9.3 | 11.4 | 10.6 | 14 |
|  | 7.8 | 7.2 | 12.6 | 8.6 | 9.6 |
|  | 7.6 | 7.1 | 12.1 | 12.5 | 14.5 |
|  | 7.9 | 8.5 | 9.3 | 11.9 | 13.2 |
|  | 7.4 | 7.4 | 13.4 | 10.4 | 12.1 |
| **Среднее** | **6.9615** | **8.5692** | **11.7154** | **10.7308** | **12.3308** |
| **Коэффициент**  **Duncan** |  | **0.0056** | **0.0039** | **0.0042** | **0.0038** |
| **Засоление 200 мМ NaCl** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 4.1 | 3.4 | 4.3 | 4.5 | 4.5 |
|  | 3.8 | 3.6 | 4.4 | 3.5 | 3.9 |
|  | 2.7 | 3.9 | 5.3 | 5 | 4.4 |
|  | 2.8 | 3.1 | 4.1 | 4.3 | 2.9 |
|  | 2.8 | 4.4 | 5.2 | 4.3 | 2.8 |
|  | 4.5 | 3.3 | 3.8 | 4.3 | 2.7 |
|  | 4.9 | 3.2 | 3.5 | 4.4 | 3.5 |
|  | 4.6 | 2.9 | 4.8 | 4.4 | 4.9 |
|  | 4.1 | 3.1 | 4.3 | 4.6 | 3.7 |
|  | 4.2 | 3.2 | 4.5 | 4.8 | 3.3 |
|  | 4.2 | 3.4 | 5 | 2.9 | 4.5 |
|  | 4.5 | 3.6 | 5.5 | 4.3 | 3.3 |
|  | 3.9 | 2.8 | 4.6 | 4.1 | 4.6 |
| **Среднее** | **3.9308** | **3.3769** | **4.5615** | **4.2615** | **3.7692** |
| **Коэффициент**  **Duncan** |  | **0.0798** | **0.4810** | **0.3210** | **0.9013** |
| **Загрязнение тяжелыми металлами 100 мкМ CuSO4** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 9.7 | 22.3 | 11.5 | 10.9 | 15.2 |
|  | 9.6 | 20.5 | 10.2 | 12.4 | 12.6 |
|  | 8.5 | 16.9 | 10.9 | 8.4 | 16.5 |
|  | 8.6 | 21.5 | 13.3 | 10.8 | 14.9 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 9 | 19.4 | 15.1 | 11.7 | 14.5 |
|  | 8.9 | 18 | 14.5 | 11.6 | 12.2 |
|  | 8.4 | 19.8 | 14.6 | 12.4 | 15.6 |
|  | 7.9 | 24.3 | 15.4 | 9.2 | 12.8 |
|  | 9.4 | 18.4 | 12.6 | 9.5 | 13.7 |
|  | 9.5 | 16.7 | 13.9 | 10.2 | 15 |
|  | 9.8 | 16.5 | 14.1 | 11.4 | 15.2 |
|  | 7.9 | 17.9 | 14.4 | 8.9 | 13.4 |
|  | 10.1 | 18.1 | 13.9 | 9.9 | 13.7 |
| **Среднее** | **9.0231** | **19.2538** | **13.4154** | **10.5615** | **14.2538** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0047** | **0.0553** | **0.0008** |
| **Загрязнение тяжелыми металлами 100 мкМ Cd(CH3COO)2** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 2.8 | 14.9 | 7.6 | 8.8 | 16.6 |
|  | 2.6 | 12.4 | 7.5 | 8.9 | 14.3 |
|  | 3.2 | 14.2 | 8.6 | 8.6 | 15.2 |
|  | 4.5 | 12.8 | 9.4 | 10.3 | 17.7 |
|  | 3.7 | 11.7 | 9.5 | 7.5 | 15.3 |
|  | 3.8 | 14.6 | 9.6 | 10.9 | 13.1 |
|  | 3.3 | 14.7 | 9.8 | 8.4 | 18.3 |
|  | 2.7 | 12.6 | 8.3 | 8.6 | 16.3 |
|  | 2.6 | 14.8 | 7.5 | 6.2 | 17.5 |
|  | 2.9 | 13.9 | 8.6 | 7.5 | 12.4 |
|  | 2.9 | 14.1 | 10 | 8.1 | 15.3 |
|  | 3.2 | 13.2 | 8.1 | 8.2 | 16 |
|  | 3.3 | 13.7 | 9.3 | 8.7 | 14.2 |
| **Среднее** | **3.1923** | **13.6615** | **8.7538** | **8.5154** | **15.5538** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0004** | **0.0005** | **0.0000** |

**Таблица 4.** Данные по рисунку 2. Сухая масса волосовидных корней табака в условиях теплового стресса (+32°С; +35°С), засоления (150 мМ NaCl; 200 мМ NaCl) и действия 100 мкM CuSO4 и 100 мкМ Cd(CH3COO)2.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Стандартные условия** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 0.75 | 0.97 | 0.91 | 0.86 | 0.95 |
|  | 0.79 | 0.88 | 0.92 | 0.81 | 0.86 |
|  | 0.83 | 0.84 | 0.91 | 0.86 | 0.83 |
|  | 0.77 | 0.87 | 0.96 | 0.83 | 0.82 |
|  | 0.82 | 0.84 | 0.88 | 0.88 | 0.78 |
|  | 0.73 | 0.83 | 0.92 | 0.9 | 0.97 |
|  | 0.88 | 0.81 | 0.85 | 0.81 | 0.75 |
|  | 0.75 | 0.83 | 0.91 | 0.93 | 0.73 |
|  | 0.77 | 0.94 | 0.87 | 0.8 | 0.85 |
|  | 0.78 | 0.84 | 0.91 | 0.83 | 0.99 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0.75 | 0.85 | 0.83 | 0.81 | 0.76 |
|  | 0.78 | 0.83 | 0.93 | 0.82 | 0.85 |
|  | 0.81 | 0.92 | 0.9 | 0.85 | 0.93 |
|  | 0.71 | 0.86 | 0.82 | 0.87 | 0.89 |
| **Среднее** | **0.7800** | **0.8650** | **0.8943** | **0.8471** | **0.8543** |
| **Коэффициент**  **Duncan** |  | **0.0510** | **0.0012** | **0.0522** | **0.0675** |
| **Гипертермия 32°С** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 0.28 | 0.52 | 0.62 | 0.53 | 0.57 |
|  | 0.27 | 0.54 | 0.57 | 0.59 | 0.56 |
|  | 0.27 | 0.56 | 0.55 | 0.61 | 0.55 |
|  | 0.31 | 0.57 | 0.59 | 0.58 | 0.56 |
|  | 0.29 | 0.58 | 0.51 | 0.58 | 0.57 |
|  | 0.24 | 0.52 | 0.6 | 0.57 | 0.61 |
|  | 0.3 | 0.51 | 0.54 | 0.56 | 0.57 |
|  | 0.32 | 0.49 | 0.54 | 0.54 | 0.64 |
|  | 0.27 | 0.49 | 0.53 | 0.57 | 0.57 |
|  | 0.27 | 0.51 | 0.54 | 0.58 | 0.58 |
|  | 0.28 | 0.47 | 0.57 | 0.53 | 0.59 |
|  | 0.25 | 0.52 | 0.56 | 0.58 | 0.56 |
|  | 0.26 | 0.54 | 0.55 | 0.59 | 0.57 |
|  | 0.32 | 0.58 | 0.58 | 0.58 | 0.56 |
| **Среднее** | **0.2807** | **0.5286** | **0.5607** | **0.5707** | **0.5757** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** | **0.0000** | **0.0000** |
| **Гипертермия 35°С** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 0.05 | 0.18 | 0.17 | 0.21 | 0.19 |
|  | 0.08 | 0.16 | 0.19 | 0.19 | 0.18 |
|  | 0.03 | 0.22 | 0.18 | 0.16 | 0.19 |
|  | 0.04 | 0.19 | 0.22 | 0.22 | 0.18 |
|  | 0.06 | 0.18 | 0.2 | 0.24 | 0.2 |
|  | 0.05 | 0.16 | 0.18 | 0.18 | 0.17 |
|  | 0.04 | 0.17 | 0.19 | 0.24 | 0.24 |
|  | 0.08 | 0.16 | 0.18 | 0.25 | 0.21 |
|  | 0.06 | 0.18 | 0.16 | 0.18 | 0.22 |
|  | 0.06 | 0.19 | 0.18 | 0.17 | 0.21 |
|  | 0.06 | 0.21 | 0.19 | 0.22 | 0.19 |
|  | 0.05 | 0.17 | 0.21 | 0.18 | 0.18 |
|  | 0.03 | 0.18 | 0.19 | 0.17 | 0.21 |
|  | 0.05 | 0.2 | 0.18 | 0.16 | 0.18 |
| **Среднее** | **0.0529** | **0.1821** | **0.1871** | **0.1979** | **0.1964** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** | **0.0000** | **0.0000** |
| **Засоление 150 мМ NaCl** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 0.56 | 0.55 | 0.66 | 0.67 | 0.61 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0.57 | 0.58 | 0.53 | 0.64 | 0.64 |
|  | 0.49 | 0.48 | 0.72 | 0.67 | 0.68 |
|  | 0.48 | 0.47 | 0.61 | 0.58 | 0.64 |
|  | 0.55 | 0.56 | 0.62 | 0.68 | 0.62 |
|  | 0.59 | 0.59 | 0.65 | 0.63 | 0.58 |
|  | 0.6 | 0.61 | 0.63 | 0.69 | 0.63 |
|  | 0.59 | 0.6 | 0.74 | 0.57 | 0.67 |
|  | 0.58 | 0.57 | 0.62 | 0.62 | 0.63 |
|  | 0.57 | 0.58 | 0.61 | 0.62 | 0.58 |
|  | 0.56 | 0.61 | 0.62 | 0.64 | 0.59 |
|  | 0.58 | 0.62 | 0.68 | 0.65 | 0.57 |
|  | 0.55 | 0.55 | 0.71 | 0.67 | 0.64 |
|  | 0.58 | 0.54 | 0.65 | 0.64 | 0.61 |
| **Среднее** | **0.5607** | **0.5650** | **0.6464** | **0.6407** | **0.6207** |
| **Коэффициент**  **Duncan** |  | **0.7827** | **0.0000** | **0.0000** | **0.0001** |
| **Засоление 200 мМ NaCl** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 0.44 | 0.3 | 0.47 | 0.31 | 0.3 |
|  | 0.42 | 0.31 | 0.53 | 0.28 | 0.31 |
|  | 0.45 | 0.27 | 0.42 | 0.29 | 0.29 |
|  | 0.47 | 0.29 | 0.51 | 0.3 | 0.28 |
|  | 0.43 | 0.37 | 0.48 | 0.33 | 0.29 |
|  | 0.42 | 0.34 | 0.54 | 0.38 | 0.28 |
|  | 0.49 | 0.33 | 0.52 | 0.29 | 0.35 |
|  | 0.5 | 0.31 | 0.47 | 0.31 | 0.27 |
|  | 0.47 | 0.32 | 0.42 | 0.37 | 0.3 |
|  | 0.43 | 0.29 | 0.41 | 0.34 | 0.35 |
|  | 0.46 | 0.37 | 0.47 | 0.38 | 0.34 |
|  | 0.43 | 0.27 | 0.43 | 0.36 | 0.31 |
|  | 0.47 | 0.26 | 0.44 | 0.37 | 0.33 |
|  | 0.45 | 0.27 | 0.42 | 0.35 | 0.34 |
| **Среднее** | **0.4521** | **0.3071** | **0.4664** | **0.3329** | **0.3100** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.3094** | **0.0000** | **0.0000** |
| **Загрязнение тяжелыми металлами 100 мкМ CuSO4** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 0.39 | 0.53 | 0.48 | 0.51 | 0.54 |
|  | 0.41 | 0.52 | 0.47 | 0.53 | 0.51 |
|  | 0.42 | 0.48 | 0.51 | 0.55 | 0.55 |
|  | 0.47 | 0.49 | 0.51 | 0.51 | 0.57 |
|  | 0.45 | 0.52 | 0.47 | 0.52 | 0.58 |
|  | 0.51 | 0.49 | 0.46 | 0.5 | 0.52 |
|  | 0.48 | 0.5 | 0.46 | 0.58 | 0.51 |
|  | 0.46 | 0.52 | 0.5 | 0.52 | 0.58 |
|  | 0.47 | 0.51 | 0.48 | 0.53 | 0.51 |
|  | 0.49 | 0.46 | 0.48 | 0.52 | 0.54 |
|  | 0.4 | 0.47 | 0.49 | 0.6 | 0.52 |
|  | 0.48 | 0.48 | 0.47 | 0.55 | 0.53 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0.43 | 0.54 | 0.5 | 0.52 | 0.54 |
|  | 0.44 | 0.51 | 0.47 | 0.53 | 0.55 |
| **Среднее** | **0.4500** | **0.5014** | **0.4821** | **0.5336** | **0.5393** |
| **Коэффициент**  **Duncan** |  | **0.0519** | **0.0583** | **0.0000** | **0.0000** |
| **Загрязнение тяжелыми металлами 100 мкМ Cd(CH3COO)2** | | | | | |
|  | ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
|  | 0.12 | 0.24 | 0.21 | 0.24 | 0.22 |
|  | 0.11 | 0.25 | 0.22 | 0.24 | 0.24 |
|  | 0.1 | 0.25 | 0.21 | 0.26 | 0.2 |
|  | 0.13 | 0.22 | 0.23 | 0.25 | 0.25 |
|  | 0.1 | 0.27 | 0.21 | 0.24 | 0.23 |
|  | 0.12 | 0.24 | 0.24 | 0.26 | 0.22 |
|  | 0.13 | 0.23 | 0.22 | 0.27 | 0.24 |
|  | 0.1 | 0.21 | 0.18 | 0.33 | 0.25 |
|  | 0.12 | 0.25 | 0.19 | 0.27 | 0.2 |
|  | 0.14 | 0.28 | 0.21 | 0.26 | 0.18 |
|  | 0.12 | 0.29 | 0.2 | 0.24 | 0.19 |
|  | 0.13 | 0.25 | 0.21 | 0.25 | 0.21 |
|  | 0.14 | 0.26 | 0.24 | 0.26 | 0.18 |
|  | 0.15 | 0.27 | 0.22 | 0.28 | 0.19 |
| **Среднее** | **0.1221** | **0.2507** | **0.2136** | **0.2607** | **0.2143** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

**Таблица 5.** Данные по рисунку 3. Активность СОД (Е/мг белка) в волосовидных корнях табака трансгенных по гену *AtGSTF11*

|  |  |  |  |
| --- | --- | --- | --- |
| **Стандартные условия** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 27.3799 | 36.6700 | 35.9394 |
|  | 28.8005 | 34.8816 | 35.5805 |
|  | 28.7363 | 37.3996 | 35.6180 |
|  | 29.3940 | 38.1367 | 34.9838 |
|  | 28.1404 | 37.1305 | 36.0401 |
|  | 28.7217 | 34.9480 | 35.5489 |
|  | 27.7810 | 35.4858 | 35.7061 |
|  | 27.9104 | 37.1014 | 34.9583 |
|  | 29.4842 | 36.6577 | 36.3503 |
|  | 29.8144 | 36.6918 | 34.0796 |
|  | 28.5206 | 38.0058 | 36.0386 |
|  | 28.9839 | 36.0216 | 34.2371 |
|  | 27.2896 | 37.5529 | 35.8093 |
|  | 29.6198 | 35.5517 | 36.3831 |
|  | 29.6139 | 36.9865 | 35.7955 |
| **Среднее** | **28.6794** | **36.6148** | **35.5379** |
| **Максимум** | **29.8144** | **38.1367** | **36.3831** |
| **Минимум** | **27.2896** | **34.8816** | **34.0796** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |
| **Засоление 150 мМ NaCl** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 31.8247 | 34.3296 | 38.4610 |
|  | 33.9252 | 35.1762 | 35.0856 |
|  | 33.4399 | 34.5687 | 36.6101 |
|  | 32.3294 | 33.8861 | 35.7542 |
|  | 31.9687 | 33.5642 | 37.2892 |
|  | 32.3061 | 33.8737 | 35.2888 |
|  | 33.7181 | 33.5018 | 37.7854 |
|  | 31.6416 | 35.2879 | 35.3526 |
|  | 33.4834 | 34.0754 | 36.3972 |
|  | 32.5694 | 36.0160 | 36.3156 |
|  | 31.2896 | 35.3504 | 37.1796 |
|  | 32.3760 | 35.5022 | 36.5278 |
|  | 33.6939 | 35.1303 | 36.3954 |
|  | 33.0970 | 34.3623 | 37.1207 |
|  | 32.1124 | 33.5951 | 38.0598 |
| **Среднее** | **32.6517** | **34.5480** | **36.6415** |
| **Максимум** | **33.9252** | **36.0160** | **38.4610** |
| **Минимум** | **31.2896** | **33.5018** | **35.0856** |
| **Коэффициент**  **Duncan** |  | **0.0536** | **0.0507** |
| **Гипертермия 32°С** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 28.6192 | 27.6017 | 26.1809 |
|  | 27.5674 | 27.6598 | 26.8725 |
|  | 29.2057 | 28.9239 | 26.2163 |
|  | 30.0529 | 28.6176 | 27.2378 |
|  | 29.0169 | 28.3832 | 26.8811 |
|  | 29.3409 | 28.2686 | 27.1168 |
|  | 29.4267 | 27.0130 | 25.9931 |
|  | 30.1429 | 27.2778 | 27.1257 |
|  | 28.4762 | 27.9498 | 26.9151 |
|  | 27.9272 | 27.1148 | 27.4468 |
|  | 30.3843 | 27.7507 | 26.7040 |
|  | 29.4830 | 27.2592 | 24.1375 |
|  | 29.9257 | 28.5779 | 26.5945 |
|  | 27.9965 | 26.9454 | 26.0322 |
|  | 27.6293 | 28.9171 | 27.2779 |
| **Среднее** | **29.0130** | **27.8840** | **26.5822** |
| **Максимум** | **30.3843** | **28.9239** | **27.4468** |
| **Минимум** | **27.5674** | **26.9454** | **24.1375** |
| **Коэффициент**  **Duncan** |  | **0.0903** | **0.0552** |
| **Загрязнение тяжелыми металлами 100 мкМ Cd(CH3COO)2** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 23.8985 | 25.7289 | 27.3874 |
|  | 23.9781 | 25.0572 | 26.8903 |
|  | 25.2884 | 23.7310 | 27.1860 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 24.8065 | 23.4358 | 28.8665 |
|  | 23.9813 | 24.3581 | 29.2778 |
|  | 24.4719 | 24.5907 | 27.1231 |
|  | 24.4299 | 24.9618 | 27.9226 |
|  | 23.8915 | 23.9206 | 26.9965 |
|  | 24.0545 | 25.5525 | 26.9844 |
|  | 24.3105 | 25.0227 | 27.6040 |
|  | 24.9245 | 23.5090 | 27.9256 |
|  | 24.4279 | 25.5681 | 27.1877 |
|  | 24.8803 | 23.6268 | 26.9349 |
|  | 24.6813 | 23.9290 | 28.0430 |
|  | 24.7841 | 25.0619 | 28.0252 |
| **Среднее** | **24.4539** | **24.5369** | **27.6237** |
| **Максимум** | **25.2884** | **25.7289** | **29.2778** |
| **Минимум** | **23.8915** | **23.4358** | **26.8903** |
| **Коэффициент**  **Duncan** |  | **0.7272** | **0.1352** |

**Таблица 6.** Данные по рисунку 3. Активность ПО (Е/мг белка) в волосовидных корнях табака трансгенных по гену *AtGSTF11*

|  |  |  |  |
| --- | --- | --- | --- |
| **Стандартные условия** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 52.976 | 83.816 | 72.075 |
|  | 53.483 | 56.491 | 72.135 |
|  | 55.367 | 69.022 | 66.082 |
|  | 52.916 | 99.056 | 58.309 |
|  | 53.751 | 117.698 | 83.433 |
|  | 51.487 | 96.693 | 86.797 |
|  | 53.085 | 94.610 | 95.802 |
|  | 52.965 | 131.158 | 98.879 |
|  | 50.308 | 49.550 | 52.502 |
|  | 55.238 | 59.358 | 49.791 |
|  | 52.718 | 87.483 | 73.648 |
|  | 53.628 | 114.105 | 55.716 |
|  | 54.430 | 79.829 | 92.995 |
|  | 51.456 | 130.106 | 49.643 |
|  | 52.262 | 61.827 | 53.846 |
| **Среднее** | **53.0713** | **88.7201** | **70.7769** |
| **Максимум** | **55.3670** | **131.1580** | **98.8790** |
| **Минимум** | **50.3080** | **49.5500** | **49.6430** |
| **Коэффициент**  **Duncan** |  | **0.0516** | **0.1618** |
| **Засоление 150 мМ NaCl** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 134.143 | 104.978 | 92.243 |
|  | 142.703 | 65.868 | 94.318 |
|  | 135.360 | 140.537 | 102.553 |
|  | 169.234 | 137.149 | 76.365 |
|  | 159.711 | 128.361 | 90.725 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 155.591 | 132.604 | 87.705 |
|  | 144.974 | 105.567 | 70.091 |
|  | 136.585 | 144.793 | 76.345 |
|  | 152.310 | 125.627 | 108.208 |
|  | 156.822 | 79.894 | 95.140 |
|  | 143.425 | 84.746 | 92.019 |
|  | 129.385 | 148.881 | 70.985 |
|  | 166.277 | 92.666 | 82.288 |
|  | 144.988 | 133.124 | 79.889 |
|  | 147.332 | 59.780 | 71.279 |
| **Среднее** | **147.9227** | **112.3050** | **86.0102** |
| **Максимум** | **169.2340** | **148.8810** | **108.2080** |
| **Минимум** | **129.3850** | **59.7800** | **70.0910** |
| **Коэффициент**  **Duncan** |  | **0.1769** | **0.0021** |
| **Гипертермия 32°С** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 125.861 | 203.843 | 201.618 |
|  | 109.242 | 267.425 | 217.046 |
|  | 141.250 | 259.300 | 190.179 |
|  | 111.974 | 263.066 | 147.331 |
|  | 143.388 | 246.534 | 215.519 |
|  | 144.094 | 255.050 | 146.765 |
|  | 135.741 | 259.566 | 159.911 |
|  | 143.592 | 247.383 | 189.952 |
|  | 111.967 | 246.336 | 194.656 |
|  | 114.700 | 261.021 | 183.585 |
|  | 133.353 | 252.951 | 213.510 |
|  | 111.936 | 266.069 | 207.652 |
|  | 122.905 | 272.036 | 202.008 |
|  | 131.090 | 264.561 | 190.169 |
|  | 111.452 | 209.080 | 207.892 |
| **Среднее** | **126.1697** | **251.6147** | **191.1862** |
| **Максимум** | **144.0940** | **272.0360** | **217.0460** |
| **Минимум** | **109.2420** | **203.8430** | **146.7650** |
| **Коэффициент**  **Duncan** |  | **0.0003** | **0.0037** |
| **Загрязнение тяжелыми металлами 100 мкМ Cd(CH3COO)2** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 71.102 | 71.009 | 137.185 |
|  | 74.272 | 22.466 | 117.566 |
|  | 99.470 | 107.449 | 142.076 |
|  | 98.927 | 110.196 | 148.731 |
|  | 94.601 | 97.878 | 129.584 |
|  | 94.509 | 83.870 | 156.169 |
|  | 82.936 | 96.830 | 118.088 |
|  | 91.742 | 21.674 | 140.353 |
|  | 87.495 | 75.862 | 124.937 |
|  | 91.509 | 43.148 | 100.429 |
|  | 72.046 | 61.095 | 151.453 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 93.855 | 83.801 | 149.265 |
|  | 99.110 | 101.954 | 134.969 |
|  | 70.607 | 22.242 | 97.771 |
|  | 78.844 | 97.045 | 139.905 |
| **Среднее** | **86.7350** | **73.1013** | **132.5654** |
| **Максимум** | **99.4700** | **110.1960** | **156.1690** |
| **Минимум** | **70.6070** | **21.6740** | **97.7710** |
| **Коэффициент**  **Duncan** |  | **0.1279** | **0.0588** |

**Таблица 7.** Данные по рисунку 3. Активность КАТ (mkat/мг белка) в волосовидных корнях табака трансгенных по гену *AtGSTF11*

|  |  |  |  |
| --- | --- | --- | --- |
| **Стандартные условия** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 185.041 | 169.129 | 161.175 |
|  | 179.366 | 168.153 | 162.579 |
|  | 169.031 | 167.793 | 163.421 |
|  | 177.581 | 177.386 | 161.921 |
|  | 184.012 | 171.857 | 159.052 |
|  | 169.805 | 176.161 | 158.566 |
|  | 173.852 | 178.627 | 155.402 |
|  | 183.464 | 161.47 | 156.432 |
|  | 178.839 | 163.845 | 162.819 |
|  | 186.066 | 174.676 | 151.784 |
|  | 171.644 | 172.433 | 164.32 |
|  | 183.487 | 169.604 | 153.077 |
|  | 174.948 | 161.253 | 160.758 |
|  | 168.227 | 169.781 | 166.931 |
|  | 177.353 | 168.314 | 151.8 |
| **Среднее** | **177.5144** | **170.0321333** | **159.3358** |
| **Максимум** | **186.066** | **178.627** | **166.931** |
| **Минимум** | **168.227** | **161.253** | **151.784** |
| **Коэффициент**  **Duncan** |  | **0.152827** | **0.068469** |
| **Засоление 150 мМ NaCl** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 503.705 | 454.288 | 407.022 |
|  | 521.476 | 451.97 | 407.4 |
|  | 510.392 | 447.247 | 401.042 |
|  | 510.533 | 445.68 | 400.599 |
|  | 501.943 | 454.438 | 406.973 |
|  | 520.351 | 468.192 | 413.007 |
|  | 510.178 | 464.595 | 408.253 |
|  | 507.798 | 463.83 | 414.638 |
|  | 523.067 | 449.154 | 406.202 |
|  | 522.885 | 462.276 | 401.501 |
|  | 511.139 | 459.592 | 415.133 |
|  | 508.25 | 449.346 | 408.064 |
|  | 503.841 | 467.273 | 415.828 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 512.56 | 459.72 | 417.625 |
|  | 521.89 | 456.34 | 413.428 |
| **Среднее** | **512.6672** | **456.9294** | **409.1143333** |
| **Максимум** | **523.067** | **468.192** | **417.625** |
| **Минимум** | **501.943** | **445.68** | **400.599** |
| **Коэффициент**  **Duncan** |  | **0.173675** | **0.003505** |
| **Гипертермия 32°С** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 299.58 | 346.662 | 302.764 |
|  | 285.756 | 350.155 | 295.907 |
|  | 299.618 | 350.892 | 294.498 |
|  | 289.664 | 333.734 | 308.051 |
|  | 277.739 | 331.79 | 292.847 |
|  | 279.346 | 329.817 | 293.064 |
|  | 291.364 | 344.673 | 300.55 |
|  | 283.282 | 338.228 | 308.439 |
|  | 290.2 | 354.629 | 305.727 |
|  | 291.872 | 348.498 | 296.909 |
|  | 294.868 | 348.497 | 308.832 |
|  | 283.26 | 341.576 | 305.611 |
|  | 297.202 | 329.1338078 | 302.09 |
|  | 287.917 | 345.024 | 295.85 |
|  | 302.861 | 357.6640478 | 309.969 |
| **Среднее** | **290.3019333** | **343.3981904** | **301.4072** |
| **Максимум** | **302.861** | **357.6640478** | **309.969** |
| **Минимум** | **277.739** | **329.1338078** | **292.847** |
| **Коэффициент**  **Duncan** |  | **0.001464** | **0.143777** |
| **Загрязнение тяжелыми металлами 100 мкМ Cd(CH3COO)2** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 544.846 | 478.328 | 513.645 |
|  | 540.904 | 507.412 | 511.797 |
|  | 521.889 | 473.749 | 535.358 |
|  | 525.073 | 479.363 | 507.259 |
|  | 538.387 | 511.052 | 538.261 |
|  | 524.669 | 492.787 | 509.412 |
|  | 520.333 | 504.29 | 525.75 |
|  | 525.29 | 491.128 | 543.866 |
|  | 538.58 | 485.391 | 499.436 |
|  | 545.739 | 509.678 | 523.618 |
|  | 537.957 | 479.769 | 523.872 |
|  | 518.291 | 501.954 | 504.89 |
|  | 537.827 | 500.884 | 519.238 |
|  | 545.239 | 482.42 | 538.464 |
|  | 527.042 | 487.796 | 529.909 |
| **Среднее** | **532.8044** | **492.4000667** | **521.6516667** |
| **Максимум** | **545.739** | **511.052** | **543.866** |
| **Минимум** | **518.291** | **473.749** | **499.436** |
| **Коэффициент**  **Duncan** |  | **0.151741** | **0.161068** |

**Таблица 8.** Данные по рисунку 3. Содержание МДА (нМ/г сырой массы) в волосовидных корнях табака трансгенных по гену *AtGSTF11*

|  |  |  |  |
| --- | --- | --- | --- |
| **Стандартные условия** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 8.406 | 11.306 | 11.710 |
|  | 8.896 | 11.555 | 12.049 |
|  | 8.334 | 10.965 | 12.293 |
|  | 8.525 | 11.155 | 12.485 |
|  | 8.192 | 11.494 | 12.557 |
|  | 8.503 | 11.701 | 11.879 |
|  | 8.557 | 11.718 | 12.668 |
|  | 8.472 | 11.814 | 12.863 |
|  | 8.394 | 11.906 | 12.102 |
|  | 8.728 | 11.037 | 12.019 |
|  | 8.576 | 11.231 | 12.943 |
|  | 8.049 | 10.837 | 12.237 |
|  | 8.182 | 11.518 | 12.679 |
|  | 8.522 | 10.899 | 12.206 |
|  | 8.759 | 10.772 | 12.133 |
| **Среднее** | **8.4730** | **11.3272** | **12.3214** |
| **Максимум** | **8.8962** | **11.9059** | **12.9428** |
| **Минимум** | **8.0490** | **10.7720** | **11.7102** |
| **Коэффициент**  **Duncan** |  | **0.0086** | **0.0014** |
| **Засоление 150 мМ NaCl** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 18.475 | 11.669 | 14.162 |
|  | 17.532 | 11.557 | 14.728 |
|  | 18.982 | 11.695 | 14.128 |
|  | 17.776 | 12.584 | 14.549 |
|  | 17.349 | 12.177 | 13.455 |
|  | 17.255 | 12.433 | 13.763 |
|  | 18.409 | 12.287 | 13.637 |
|  | 18.639 | 12.503 | 14.653 |
|  | 18.765 | 12.478 | 13.560 |
|  | 17.279 | 11.753 | 14.027 |
|  | 18.339 | 12.199 | 14.388 |
|  | 18.255 | 12.774 | 14.218 |
|  | 18.617 | 11.594 | 14.288 |
|  | 17.719 | 12.172 | 14.046 |
|  | 19.072 | 12.608 | 14.871 |
| **Среднее** | **18.1641** | **12.1654** | **14.1649** |
| **Максимум** | **19.0717** | **12.7736** | **14.8714** |
| **Минимум** | **17.2553** | **11.5570** | **13.4550** |
| **Коэффициент**  **Duncan** |  | **0.0033** | **0.0026** |
| **Гипертермия 32°С** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 44.432 | 15.880 | 15.814 |
|  | 48.984 | 17.119 | 15.973 |
|  | 46.509 | 16.386 | 15.072 |
|  | 44.943 | 17.207 | 15.095 |
|  | 44.828 | 17.091 | 15.790 |
|  | 44.756 | 17.389 | 16.191 |
|  | 48.050 | 15.773 | 16.503 |
|  | 48.149 | 16.538 | 15.793 |
|  | 46.901 | 17.155 | 15.120 |
|  | 47.363 | 16.299 | 15.904 |
|  | 46.316 | 17.175 | 16.658 |
|  | 47.187 | 15.733 | 15.310 |
|  | 45.056 | 16.545 | 16.631 |
|  | 46.458 | 16.016 | 16.022 |
|  | 45.903 | 16.165 | 15.953 |
| **Среднее** | **46.3889** | **16.5648** | **15.8552** |
| **Максимум** | **48.9839** | **17.3894** | **16.6585** |
| **Минимум** | **44.4319** | **15.7333** | **15.0719** |
| **Коэффициент**  **Duncan** |  | **0.0005** | **0.0001** |
| **Загрязнение тяжелыми металлами 100 мкМ Cd(CH3COO)2** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 40.179 | 18.275 | 20.215 |
|  | 40.337 | 19.014 | 19.421 |
|  | 40.584 | 18.424 | 18.940 |
|  | 37.717 | 18.617 | 20.317 |
|  | 37.818 | 19.425 | 18.802 |
|  | 36.882 | 18.134 | 18.879 |
|  | 40.404 | 17.713 | 20.455 |
|  | 39.599 | 19.018 | 19.011 |
|  | 39.396 | 18.061 | 19.292 |
|  | 36.719 | 18.102 | 20.215 |
|  | 38.171 | 18.534 | 19.353 |
|  | 37.839 | 18.164 | 20.154 |
|  | 38.236 | 19.577 | 18.933 |
|  | 38.482 | 19.485 | 20.424 |
|  | 37.408 | 19.138 | 19.898 |
| **Среднее** | **38.6513** | **18.6454** | **19.6207** |
| **Максимум** | **40.5838** | **19.5774** | **20.4554** |
| **Минимум** | **36.7186** | **17.7129** | **18.8020** |
| **Коэффициент**  **Duncan** |  | **0.0098** | **0.0055** |

**Таблица 9.** Данные по рисунку 3. Скорость образования супероксид-аниона (мкМ/(час × г сырой массы)) в волосовидных корнях табака трансгенных по гену *AtGSTF11*

|  |  |  |  |
| --- | --- | --- | --- |
| **Стандартные условия** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 0.145 | 0.174 | 0.197 |
|  | 0.139 | 0.168 | 0.192 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 0.151 | 0.162 | 0.198 |
|  | 0.142 | 0.172 | 0.182 |
|  | 0.144 | 0.174 | 0.196 |
|  | 0.146 | 0.160 | 0.192 |
|  | 0.152 | 0.175 | 0.185 |
|  | 0.146 | 0.159 | 0.184 |
|  | 0.147 | 0.167 | 0.185 |
|  | 0.141 | 0.171 | 0.191 |
|  | 0.150 | 0.173 | 0.183 |
|  | 0.140 | 0.174 | 0.196 |
|  | 0.140 | 0.171 | 0.180 |
|  | 0.150 | 0.171 | 0.182 |
|  | 0.149 | 0.164 | 0.197 |
| **Среднее** | **0.1454** | **0.1691** | **0.1893** |
| **Максимум** | **0.1518** | **0.1745** | **0.1978** |
| **Минимум** | **0.1394** | **0.1595** | **0.1802** |
| **Коэффициент**  **Duncan** |  | **0.0524** | **0.0355** |
| **Засоление 150 мМ NaCl** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 0.198 | 0.246 | 0.250 |
|  | 0.210 | 0.235 | 0.255 |
|  | 0.196 | 0.235 | 0.253 |
|  | 0.208 | 0.249 | 0.261 |
|  | 0.203 | 0.237 | 0.265 |
|  | 0.203 | 0.239 | 0.264 |
|  | 0.206 | 0.242 | 0.270 |
|  | 0.194 | 0.228 | 0.261 |
|  | 0.210 | 0.237 | 0.252 |
|  | 0.203 | 0.241 | 0.263 |
|  | 0.211 | 0.238 | 0.251 |
|  | 0.193 | 0.237 | 0.266 |
|  | 0.197 | 0.247 | 0.261 |
|  | 0.197 | 0.248 | 0.254 |
|  | 0.203 | 0.232 | 0.256 |
| **Среднее** | **0.2020** | **0.2392** | **0.2588** |
| **Максимум** | **0.2106** | **0.2490** | **0.2699** |
| **Минимум** | **0.1933** | **0.2276** | **0.2503** |
| **Коэффициент**  **Duncan** |  | **0.0007** | **0.0004** |
| **Гипертермия 32°С** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 0.057 | 0.176 | 0.253 |
|  | 0.054 | 0.174 | 0.245 |
|  | 0.056 | 0.189 | 0.256 |
|  | 0.054 | 0.177 | 0.244 |
|  | 0.051 | 0.189 | 0.259 |
|  | 0.052 | 0.173 | 0.260 |
|  | 0.056 | 0.191 | 0.268 |
|  | 0.057 | 0.185 | 0.250 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 0.056 | 0.178 | 0.250 |
|  | 0.052 | 0.178 | 0.266 |
|  | 0.052 | 0.173 | 0.252 |
|  | 0.055 | 0.186 | 0.254 |
|  | 0.057 | 0.189 | 0.265 |
|  | 0.052 | 0.184 | 0.254 |
|  | 0.055 | 0.173 | 0.249 |
| **Среднее** | **0.0543** | **0.1809** | **0.2549** |
| **Максимум** | **0.0570** | **0.1909** | **0.2679** |
| **Минимум** | **0.0510** | **0.1727** | **0.2440** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |
| **Загрязнение тяжелыми металлами 100 мкМ Cd(CH3COO)2** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 0.032 | 0.122 | 0.158 |
|  | 0.031 | 0.126 | 0.155 |
|  | 0.032 | 0.125 | 0.164 |
|  | 0.033 | 0.121 | 0.168 |
|  | 0.033 | 0.120 | 0.159 |
|  | 0.033 | 0.120 | 0.168 |
|  | 0.033 | 0.124 | 0.166 |
|  | 0.033 | 0.123 | 0.156 |
|  | 0.033 | 0.119 | 0.167 |
|  | 0.033 | 0.119 | 0.156 |
|  | 0.033 | 0.129 | 0.161 |
|  | 0.034 | 0.126 | 0.158 |
|  | 0.032 | 0.125 | 0.170 |
|  | 0.031 | 0.128 | 0.167 |
|  | 0.032 | 0.126 | 0.155 |
| **Среднее** | **0.0327** | **0.1235** | **0.1619** |
| **Максимум** | **0.0339** | **0.1287** | **0.1696** |
| **Минимум** | **0.0312** | **0.1193** | **0.1548** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |

**Таблица 10.** Данные по рисунку 3. Содержание перекиси водорода (мкМ/г сырой массы) в волосовидных корнях табака трансгенных по гену *AtGSTF11*

|  |  |  |  |
| --- | --- | --- | --- |
| **Стандартные условия** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 21.662 | 23.064 | 20.768 |
|  | 22.704 | 22.258 | 19.617 |
|  | 21.358 | 22.596 | 20.456 |
|  | 21.057 | 23.765 | 19.685 |
|  | 21.661 | 23.355 | 20.501 |
|  | 21.758 | 22.517 | 19.140 |
|  | 21.178 | 23.370 | 20.345 |
|  | 22.883 | 23.073 | 19.075 |
|  | 22.206 | 23.240 | 19.804 |
|  | 22.773 | 23.143 | 19.188 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 21.597 | 22.645 | 20.412 |
|  | 21.629 | 24.262 | 20.018 |
|  | 22.665 | 23.432 | 20.880 |
|  | 22.913 | 23.591 | 20.702 |
|  | 21.278 | 22.028 | 20.708 |
| **Среднее** | **21.9548** | **23.0893** | **20.0866** |
| **Максимум** | **22.9130** | **24.2620** | **20.8800** |
| **Минимум** | **21.0570** | **22.0280** | **19.0750** |
| **Коэффициент**  **Duncan** |  | **0.0004** | **0.0000** |
| **Засоление 150 мМ NaCl** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 29.300 | 34.644 | 32.600 |
|  | 30.508 | 37.772 | 33.973 |
|  | 31.379 | 36.297 | 33.399 |
|  | 30.448 | 37.367 | 34.600 |
|  | 31.361 | 35.302 | 31.837 |
|  | 31.236 | 36.051 | 34.048 |
|  | 29.024 | 35.426 | 34.003 |
|  | 30.929 | 35.158 | 31.178 |
|  | 30.900 | 37.939 | 34.064 |
|  | 29.581 | 35.960 | 31.094 |
|  | 31.118 | 36.561 | 34.874 |
|  | 30.841 | 35.681 | 33.479 |
|  | 31.325 | 34.726 | 33.950 |
|  | 31.278 | 36.239 | 33.639 |
|  | 31.258 | 34.843 | 31.120 |
| **Среднее** | **30.6991** | **35.9977** | **33.1905** |
| **Максимум** | **31.3790** | **37.9390** | **34.8740** |
| **Минимум** | **29.0240** | **34.6440** | **31.0940** |
| **Коэффициент**  **Duncan** |  | **0.0011** | **0.0514** |
| **Гипертермия 32°С** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 49.805 | 36.776 | 37.755 |
|  | 47.779 | 37.834 | 40.427 |
|  | 47.460 | 38.964 | 39.596 |
|  | 46.452 | 39.544 | 39.606 |
|  | 49.862 | 38.742 | 38.225 |
|  | 46.928 | 38.339 | 40.986 |
|  | 48.135 | 36.948 | 38.634 |
|  | 46.615 | 39.805 | 39.064 |
|  | 45.958 | 36.564 | 40.079 |
|  | 49.151 | 39.327 | 40.104 |
|  | 45.140 | 36.303 | 39.418 |
|  | 45.114 | 37.869 | 39.174 |
|  | 48.452 | 39.581 | 39.718 |
|  | 50.360 | 38.660 | 39.324 |
|  | 46.095 | 36.330 | 40.496 |
| **Среднее** | **47.5537** | **38.1057** | **39.5071** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Максимум** | **50.3600** | **39.8050** | **40.9860** |
| **Минимум** | **45.1140** | **36.3030** | **37.7550** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |
| **Загрязнение тяжелыми металлами 100 мкМ Cd(CH3COO)2** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 42.945 | 33.728 | 36.168 |
|  | 41.460 | 33.250 | 37.712 |
|  | 40.805 | 33.486 | 38.008 |
|  | 42.333 | 33.827 | 37.248 |
|  | 40.591 | 33.283 | 37.738 |
|  | 42.754 | 34.647 | 36.975 |
|  | 42.104 | 33.859 | 38.857 |
|  | 42.885 | 33.130 | 36.852 |
|  | 41.575 | 33.554 | 38.695 |
|  | 43.807 | 34.193 | 37.894 |
|  | 41.748 | 32.019 | 38.908 |
|  | 41.068 | 32.052 | 39.539 |
|  | 44.038 | 34.125 | 36.495 |
|  | 44.346 | 35.735 | 36.989 |
|  | 43.271 | 35.086 | 39.903 |
| **Среднее** | **42.3820** | **33.7316** | **37.8654** |
| **Максимум** | **44.3460** | **35.7350** | **39.9030** |
| **Минимум** | **40.5910** | **32.0190** | **36.1680** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |

**Таблица 11.** Данные по рисунку 3. Содержание общего растворимого белка (мг/г сырой массы) в волосовидных корнях табака трансгенных по гену *AtGSTF11*

|  |  |  |  |
| --- | --- | --- | --- |
| **Стандартные условия** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 4.156 | 3.410 | 4.072 |
|  | 3.859 | 3.687 | 4.007 |
|  | 3.878 | 3.436 | 4.347 |
|  | 3.826 | 3.462 | 4.254 |
|  | 3.944 | 3.724 | 4.263 |
|  | 4.027 | 3.476 | 3.973 |
|  | 4.057 | 3.742 | 4.363 |
|  | 3.848 | 3.655 | 4.326 |
|  | 3.963 | 3.611 | 4.069 |
|  | 3.887 | 3.433 | 4.262 |
|  | 4.085 | 3.500 | 4.363 |
|  | 3.921 | 3.558 | 4.332 |
|  | 3.813 | 3.717 | 3.978 |
|  | 4.048 | 3.558 | 4.104 |
|  | 4.092 | 3.432 | 4.157 |
| **Среднее** | **3.960** | **3.560** | **4.191** |
| **Максимум** | **4.1555** | **3.7419** | **4.3629** |
| **Минимум** | **3.8132** | **3.4097** | **3.9731** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Коэффициент**  **Duncan** |  | **0.0535** | **0.1789** |
| **Засоление 150 мМ NaCl** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 2.094 | 3.064 | 3.365 |
|  | 1.992 | 3.134 | 3.241 |
|  | 1.933 | 3.231 | 3.339 |
|  | 1.991 | 3.046 | 3.155 |
|  | 1.998 | 3.259 | 3.141 |
|  | 2.002 | 3.117 | 3.181 |
|  | 2.117 | 3.038 | 3.150 |
|  | 2.036 | 3.179 | 3.155 |
|  | 2.116 | 3.035 | 3.318 |
|  | 2.127 | 3.015 | 3.371 |
|  | 2.120 | 3.043 | 3.149 |
|  | 1.969 | 3.195 | 3.194 |
|  | 2.099 | 3.200 | 3.124 |
|  | 1.954 | 3.035 | 3.089 |
|  | 1.950 | 3.283 | 3.136 |
| **Среднее** | **2.033** | **3.125** | **3.207** |
| **Максимум** | **2.1273** | **3.2827** | **3.3713** |
| **Минимум** | **1.9325** | **3.0148** | **3.0887** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |
| **Гипертермия 32°С** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 3.016 | 2.720 | 3.048 |
|  | 2.904 | 2.731 | 3.041 |
|  | 2.922 | 2.663 | 3.203 |
|  | 2.932 | 2.631 | 3.221 |
|  | 2.873 | 2.694 | 3.235 |
|  | 2.883 | 2.552 | 3.207 |
|  | 2.879 | 2.568 | 3.277 |
|  | 3.001 | 2.545 | 3.116 |
|  | 3.030 | 2.559 | 3.058 |
|  | 2.948 | 2.646 | 3.135 |
|  | 2.912 | 2.564 | 3.016 |
|  | 2.960 | 2.612 | 3.279 |
|  | 3.047 | 2.566 | 3.051 |
|  | 2.876 | 2.601 | 3.116 |
|  | 3.113 | 2.650 | 3.049 |
| **Среднее** | **2.953** | **2.620** | **3.137** |
| **Максимум** | **3.1126** | **2.7309** | **3.2792** |
| **Минимум** | **2.8732** | **2.5445** | **3.0158** |
| **Коэффициент**  **Duncan** |  | **0.1020** | **0.1662** |
| **Загрязнение тяжелыми металлами 100 мкМ Cd(CH3COO)2** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 1.818 | 2.408 | 1.745 |
|  | 1.926 | 2.528 | 1.869 |
|  | 1.845 | 2.408 | 1.912 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 1.786 | 2.344 | 1.871 |
|  | 1.770 | 2.454 | 1.838 |
|  | 1.848 | 2.368 | 1.763 |
|  | 1.896 | 2.467 | 1.768 |
|  | 1.911 | 2.494 | 1.842 |
|  | 1.820 | 2.323 | 1.746 |
|  | 1.756 | 2.519 | 1.904 |
|  | 1.901 | 2.304 | 1.847 |
|  | 1.804 | 2.373 | 1.865 |
|  | 1.842 | 2.294 | 1.813 |
|  | 1.774 | 2.333 | 1.864 |
|  | 1.899 | 2.529 | 1.901 |
| **Среднее** | **1.840** | **2.410** | **1.837** |
| **Максимум** | **1.9260** | **2.5294** | **1.9118** |
| **Минимум** | **1.7563** | **2.2938** | **1.7449** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.8714** |

**Таблица 12.** Данные по рисунку 3. Содержание общего растворимого белка (мг/г сырой массы) в волосовидных корнях табака трансгенных по гену *AtGSTF11*

|  |  |  |  |
| --- | --- | --- | --- |
| **Стандартные условия** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 2.973 | 3.211 | 4.765 |
|  | 2.759 | 3.473 | 4.382 |
|  | 2.941 | 3.287 | 4.419 |
|  | 2.794 | 3.307 | 4.503 |
|  | 3.031 | 3.279 | 4.569 |
|  | 2.876 | 3.169 | 4.403 |
|  | 2.855 | 3.432 | 4.410 |
|  | 2.776 | 3.209 | 4.501 |
|  | 2.787 | 3.443 | 4.661 |
|  | 2.844 | 3.467 | 4.798 |
|  | 2.789 | 3.483 | 4.797 |
|  | 2.764 | 3.325 | 4.775 |
|  | 3.029 | 3.166 | 4.666 |
|  | 2.894 | 3.146 | 4.728 |
|  | 2.953 | 3.470 | 4.588 |
| **Среднее** | **2.8709** | **3.3246** | **4.5977** |
| **Максимум** | **3.0308** | **3.4834** | **4.7982** |
| **Минимум** | **2.7593** | **3.1459** | **4.3822** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |
| **Засоление 150 мМ NaCl** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 4.608 | 4.822 | 5.312 |
|  | 4.234 | 4.766 | 5.489 |
|  | 4.507 | 4.759 | 5.355 |
|  | 4.362 | 4.773 | 5.673 |
|  | 4.562 | 4.403 | 5.709 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 4.440 | 4.699 | 5.424 |
|  | 4.400 | 4.612 | 5.442 |
|  | 4.463 | 4.600 | 5.491 |
|  | 4.281 | 4.688 | 5.526 |
|  | 4.404 | 4.645 | 5.352 |
|  | 4.309 | 4.732 | 5.650 |
|  | 4.239 | 4.637 | 5.666 |
|  | 4.389 | 4.844 | 5.230 |
|  | 4.387 | 4.867 | 5.434 |
|  | 4.321 | 4.474 | 5.286 |
| **Среднее** | **4.3937** | **4.6881** | **5.4692** |
| **Максимум** | **4.6075** | **4.8674** | **5.7091** |
| **Минимум** | **4.2337** | **4.4030** | **5.2304** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |
| **Гипертермия 32°С** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 1.390 | 2.891 | 3.443 |
|  | 1.378 | 2.860 | 3.181 |
|  | 1.389 | 2.964 | 3.242 |
|  | 1.475 | 3.050 | 3.385 |
|  | 1.439 | 2.843 | 3.457 |
|  | 1.416 | 2.941 | 3.224 |
|  | 1.429 | 2.930 | 3.173 |
|  | 1.403 | 2.907 | 3.235 |
|  | 1.391 | 3.047 | 3.261 |
|  | 1.382 | 2.838 | 3.151 |
|  | 1.345 | 2.780 | 3.277 |
|  | 1.365 | 2.911 | 3.202 |
|  | 1.363 | 2.970 | 3.262 |
|  | 1.457 | 3.005 | 3.164 |
|  | 1.430 | 2.880 | 3.254 |
| **Среднее** | **1.4034** | **2.9212** | **3.2608** |
| **Максимум** | **1.4751** | **3.0495** | **3.4568** |
| **Минимум** | **1.3452** | **2.7800** | **3.1513** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |
| **Загрязнение тяжелыми металлами 100 мкМ Cd(CH3COO)2** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 4.280 | 5.068 | 4.433 |
|  | 4.140 | 4.958 | 4.736 |
|  | 3.877 | 4.950 | 4.513 |
|  | 4.196 | 5.026 | 4.643 |
|  | 3.961 | 4.676 | 4.707 |
|  | 4.034 | 4.990 | 4.472 |
|  | 4.190 | 4.868 | 4.589 |
|  | 4.054 | 4.698 | 4.379 |
|  | 3.999 | 4.851 | 4.538 |
|  | 4.251 | 4.582 | 4.531 |
|  | 3.940 | 5.030 | 4.751 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 4.203 | 4.708 | 4.621 |
|  | 4.218 | 5.001 | 4.649 |
|  | 4.254 | 4.811 | 4.488 |
|  | 4.232 | 5.063 | 4.669 |
| **Среднее** | **4.1219** | **4.8854** | **4.5814** |
| **Максимум** | **4.2798** | **5.0679** | **4.7508** |
| **Минимум** | **3.8767** | **4.5820** | **4.3788** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |

**Таблица 13.** Данные по рисунку 3. Содержание пролина (мг/г сырой массы) в волосовидных корнях табака трансгенных по гену *AtGSTF11*

|  |  |  |  |
| --- | --- | --- | --- |
| **Стандартные условия** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 0.444 | 0.352 | 0.503 |
|  | 0.410 | 0.317 | 0.469 |
|  | 0.415 | 0.342 | 0.487 |
|  | 0.445 | 0.325 | 0.468 |
|  | 0.400 | 0.333 | 0.498 |
|  | 0.423 | 0.346 | 0.463 |
|  | 0.425 | 0.333 | 0.508 |
|  | 0.438 | 0.326 | 0.456 |
|  | 0.417 | 0.337 | 0.475 |
|  | 0.451 | 0.330 | 0.506 |
|  | 0.419 | 0.347 | 0.456 |
|  | 0.423 | 0.343 | 0.494 |
|  | 0.408 | 0.311 | 0.510 |
|  | 0.423 | 0.319 | 0.495 |
|  | 0.417 | 0.349 | 0.484 |
| **Среднее** | **0.4239** | **0.3341** | **0.4848** |
| **Максимум** | **0.4512** | **0.3525** | **0.5096** |
| **Минимум** | **0.4002** | **0.3108** | **0.4564** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |
| **Засоление 150 мМ NaCl** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 1.057 | 0.493 | 0.349 |
|  | 1.061 | 0.442 | 0.324 |
|  | 1.026 | 0.459 | 0.350 |
|  | 1.073 | 0.466 | 0.342 |
|  | 1.088 | 0.474 | 0.360 |
|  | 1.022 | 0.495 | 0.342 |
|  | 1.073 | 0.488 | 0.325 |
|  | 0.993 | 0.441 | 0.347 |
|  | 0.991 | 0.448 | 0.337 |
|  | 0.985 | 0.468 | 0.351 |
|  | 1.068 | 0.485 | 0.350 |
|  | 0.996 | 0.454 | 0.354 |
|  | 1.076 | 0.494 | 0.348 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 1.004 | 0.479 | 0.331 |
|  | 1.008 | 0.480 | 0.330 |
| **Среднее** | **1.0348** | **0.4710** | **0.3427** |
| **Максимум** | **1.0881** | **0.4953** | **0.3596** |
| **Минимум** | **0.9845** | **0.4411** | **0.3243** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |
| **Гипертермия 32°С** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 1.148 | 0.695 | 0.986 |
|  | 1.187 | 0.706 | 0.924 |
|  | 1.264 | 0.694 | 0.912 |
|  | 1.165 | 0.711 | 0.930 |
|  | 1.238 | 0.640 | 0.975 |
|  | 1.260 | 0.658 | 0.940 |
|  | 1.206 | 0.716 | 0.904 |
|  | 1.215 | 0.649 | 0.967 |
|  | 1.248 | 0.674 | 0.989 |
|  | 1.201 | 0.648 | 0.940 |
|  | 1.155 | 0.672 | 0.895 |
|  | 1.218 | 0.665 | 0.894 |
|  | 1.263 | 0.641 | 0.952 |
|  | 1.144 | 0.702 | 0.941 |
|  | 1.188 | 0.696 | 0.967 |
| **Среднее** | **1.2067** | **0.6779** | **0.9411** |
| **Максимум** | **1.2639** | **0.7165** | **0.9893** |
| **Минимум** | **1.1443** | **0.6402** | **0.8936** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |
| **Загрязнение тяжелыми металлами 100 мкМ Cd(CH3COO)2** | | | |
|  | ДИКИЙ ТИП | L1 | L3 |
|  | 1.157 | 0.457 | 0.750 |
|  | 1.139 | 0.449 | 0.719 |
|  | 1.104 | 0.457 | 0.730 |
|  | 1.088 | 0.458 | 0.685 |
|  | 1.131 | 0.453 | 0.761 |
|  | 1.135 | 0.458 | 0.723 |
|  | 1.082 | 0.444 | 0.720 |
|  | 1.116 | 0.421 | 0.731 |
|  | 1.051 | 0.477 | 0.688 |
|  | 1.126 | 0.422 | 0.723 |
|  | 1.045 | 0.457 | 0.735 |
|  | 1.138 | 0.434 | 0.712 |
|  | 1.076 | 0.478 | 0.684 |
|  | 1.053 | 0.441 | 0.690 |
|  | 1.088 | 0.461 | 0.734 |
| **Среднее** | **1.1019** | **0.4510** | **0.7191** |
| **Максимум** | **1.1574** | **0.4779** | **0.7615** |
| **Минимум** | **1.0451** | **0.4209** | **0.6842** |
| **Коэффициент**  **Duncan** |  | **0.0000** | **0.0000** |

**Таблица 14.** Данные по рисунку 5. Выживаемость культур волосовидных корней, переживших долговременное хранение в условиях низких положительных температур (+3

°С).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| № чашки | Линии волосовидных корней | | | | |
| ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
| **0 дней (контрольные линии)** | | | | | |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 94% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 94% | 100% | 100% | 100% |
| **Выживаемость** | **99%** | **99%** | **100%** | **100%** | **100%** |
| **Коэффициент**  **Duncan** |  | **1.0000** | **0.3343** | **0.3343** | **0.3343** |
| **60 дней** | | | | | |
| 1 | 88% | 100% | 94% | 75% | 100% |
| 2 | 94% | 100% | 94% | 94% | 100% |
| 3 | 94% | 94% | 94% | 94% | 94% |
| 4 | 88% | 94% | 100% | 100% | 100% |
| 5 | 88% | 100% | 94% | 88% | 94% |
| 6 | 94% | 94% | 100% | 88% | 100% |
| 7 | 94% | 94% | 100% | 94% | 100% |
| 8 | 81% | 94% | 100% | 75% | 100% |
| **Выживаемость** | **90%** | **96%** | **97%** | **88%** | **98%** |
| **Коэффициент**  **Duncan** |  | **0.0752** | **0.0728** | **0.6723** | **0.0562** |
| **90 дней** | | | | | |
| 1 | 88% | 100% | 88% | 100% | 100% |
| 2 | 94% | 100% | 88% | 100% | 100% |
| 3 | 94% | 100% | 94% | 100% | 100% |
| 4 | 100% | 100% | 88% | 100% | 100% |
| 5 | 88% | 94% | 88% | 100% | 100% |
| 6 | 94% | 100% | 88% | 100% | 100% |
| 7 | 94% | 100% | 88% | 81% | 100% |
| 8 | 88% | 94% | 88% | 94% | 94% |
| **Выживаемость** | **92%** | **98%** | **88%** | **97%** | **99%** |
| **Коэффициент**  **Duncan** |  | **0.0580** | **0.0621** | **0.1202** | **0.0525** |
| **120 дней** | | | | | |
| 1 | 94% | 88% | 81% | 100% | 94% |
| 2 | 88% | 94% | 100% | 100% | 100% |
| 3 | 88% | 100% | 75% | 100% | 100% |
| 4 | 94% | 100% | 88% | 100% | 94% |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 5 |  | 100% | 88% | 100% | 100% | 100% |
| 6 |  | 75% | 94% | 88% | 100% | 88% |
| 7 |  | 94% | 94% | 94% | 94% | 94% |
| 8 |  | 88% | 94% | 88% | 94% | 94% |
| **Выживаемость** | | **90%** | **94%** | **89%** | **98%** | **95%** |
| **Коэффициент**  **Duncan** | |  | **0.2298** | **0.8494** | **0.0864** | **0.0950** |
| **150 дней** | | | | | | |
| 1 |  | 88% | 94% | 100% | 100% | 100% |
| 2 |  | 94% | 94% | 100% | 100% | 100% |
| 3 |  | 81% | 100% | 100% | 100% | 88% |
| 4 |  | 88% | 100% | 100% | 100% | 100% |
| 5 |  | 81% | 100% | 100% | 100% | 88% |
| 6 |  | 81% | 94% | 94% | 100% | 100% |
| 7 |  | 75% | 100% | 88% | 94% | 94% |
| 8 |  | 94% | 88% | 100% | 94% | 94% |
| **Выживаемость** | | **85%** | **96%** | **98%** | **98%** | **95%** |
| **Коэффициент**  **Duncan** | |  | **0.1740** | **0.0745** | **0.1460** | **0.0511** |
| **180 дней** | | | | | | |
| 1 |  | 75% | 88% | 81% | 100% | 100% |
| 2 |  | 94% | 100% | 100% | 100% | 100% |
| 3 |  | 81% | 94% | 94% | 88% | 81% |
| 4 |  | 88% | 94% | 94% | 100% | 94% |
| 5 |  | 88% | 94% | 88% | 94% | 88% |
| 6 |  | 94% | 94% | 94% | 100% | 94% |
| 7 |  | 94% | 94% | 94% | 94% | 94% |
| 8 |  | 100% | 100% | 94% | 94% | 94% |
| **Выживаемость** | | **89%** | **95%** | **92%** | **96%** | **93%** |
|  | **Коэффициент**  **Duncan** |  | **0.1062** | **0.3795** | **0.0598** | **0.2937** |
| **210 дней** | | | | | | |
| 1 |  | 75% | 88% | 81% | 81% | 100% |
| 2 |  | 88% | 100% | 88% | 94% | 100% |
| 3 |  | 81% | 100% | 88% | 81% | 100% |
| 4 |  | 88% | 88% | 81% | 94% | 100% |
| 5 |  | 94% | 94% | 88% | 81% | 100% |
| 6 |  | 75% | 94% | 94% | 94% | 100% |
| 7 |  | 88% | 100% | 94% | 88% | 94% |
| 8 |  | 88% | 88% | 88% | 88% | 88% |
| **Выживаемость** | | **84%** | **94%** | **88%** | **88%** | **98%** |
| **Коэффициент**  **Duncan** | |  | **0.0096** | **0.2983** | **0.3343** | **0.0540** |
| **240 дней** | | | | | | |
| 1 |  | 88% | 88% | 88% | 88% | 88% |
| 2 |  | 94% | 100% | 94% | 94% | 88% |
| 3 |  | 94% | 100% | 88% | 100% | 94% |
| 4 |  | 100% | 81% | 81% | 81% | 81% |
| 5 |  | 94% | 88% | 81% | 94% | 88% |
| 6 |  | 94% | 94% | 81% | 94% | 94% |
| 7 |  | 88% | 88% | 88% | 88% | 75% |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 8 | 94% | 94% | 81% | 94% | 81% |
| **Выживаемость** | **93%** | **91%** | **85%** | **91%** | **86%** |
| **Коэффициент**  **Duncan** |  | **0.5477** | **0.1280** | **0.5373** | **0.0204** |

**Таблица 15.** Данные по рисунку 5. Выживаемость культур волосовидных корней, переживших долговременное хранение в условиях дефицита сахарозы (1.875г/л).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| № чашки | Линии волосовидных корней | | | | |
| ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
| **0 дней (контрольные линии)** | | | | | |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 94% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 94% | 100% | 100% | 100% |
| **Выживаемость** | **99%** | **99%** | **100%** | **100%** | **100%** |
| **Коэффициент**  **Duncan** |  | **1.0000** | **0.3343** | **0.3343** | **0.3343** |
| **60 дней** | | | | | |
| 1 | 88% | 100% | 81% | 94% | 100% |
| 2 | 88% | 100% | 94% | 94% | 100% |
| 3 | 81% | 94% | 94% | 100% | 100% |
| 4 | 88% | 88% | 94% | 100% | 100% |
| 5 | 88% | 75% | 100% | 88% | 100% |
| 6 | 94% | 81% | 88% | 100% | 94% |
| 7 | 100% | 88% | 88% | 81% | 100% |
| 8 | 94% | 88% | 94% | 81% | 94% |
| **Выживаемость** | **90%** | **89%** | **91%** | **92%** | **98%** |
| **Коэффициент**  **Duncan** |  | **0.8348** | **0.5938** | **0.5118** | **0.1994** |
| **90 дней** | | | | | |
| 1 | 94% | 81% | 81% | 88% | 81% |
| 2 | 100% | 81% | 88% | 94% | 88% |
| 3 | 88% | 88% | 94% | 88% | 94% |
| 4 | 94% | 81% | 81% | 94% | 88% |
| 5 | 75% | 75% | 100% | 94% | 100% |
| 6 | 94% | 88% | 81% | 88% | 81% |
| 7 | 94% | 81% | 94% | 81% | 81% |
| 8 | 88% | 81% | 75% | 94% | 75% |
| **Выживаемость** | **91%** | **82%** | **87%** | **90%** | **86%** |
| **Коэффициент**  **Duncan** |  | **0.2462** | **0.3447** | **0.8054** | **0.1241** |
| **120 дней** | | | | | |
| 1 | 88% | 94% | 81% | 100% | 69% |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 2 |  | 81% | 94% | 88% | 100% | 75% |
| 3 |  | 88% | 88% | 63% | 100% | 63% |
| 4 |  | 81% | 88% | 88% | 100% | 75% |
| 5 |  | 81% | 88% | 69% | 94% | 63% |
| 6 |  | 81% | 88% | 75% | 88% | 63% |
| 7 |  | 81% | 94% | 75% | 81% | 75% |
| 8 |  | 100% | 81% | 75% | 94% | 56% |
| **Выживаемость** | | **85%** | **89%** | **77%** | **95%** | **67%** |
| **Коэффициент**  **Duncan** | |  | **0.1872** | **0.0530** | **0.1587** | **0.0014** |
| **150 дней** | | | | | | |
| 1 |  | 56% | 50% | 75% | 81% | 69% |
| 2 |  | 69% | 56% | 50% | 81% | 63% |
| 3 |  | 50% | 56% | 50% | 81% | 75% |
| 4 |  | 56% | 56% | 63% | 69% | 69% |
| 5 |  | 63% | 56% | 44% | 75% | 63% |
| 6 |  | 69% | 63% | 56% | 81% | 56% |
| 7 |  | 75% | 81% | 50% | 81% | 63% |
| 8 |  | 75% | 88% | 63% | 75% | 69% |
| **Выживаемость** | | **64%** | **63%** | **56%** | **78%** | **66%** |
| **Коэффициент**  **Duncan** | |  | **0.8949** | **0.1284** | **0.0019** | **0.6927** |
| **180 дней** | | | | | | |
| 1 |  | 0% | 38% | 6% | 81% | 44% |
| 2 |  | 0% | 19% | 0% | 75% | 31% |
| 3 |  | 0% | 25% | 0% | 81% | 38% |
| 4 |  | 0% | 31% | 0% | 81% | 38% |
| 5 |  | 0% | 25% | 0% | 75% | 50% |
| 6 |  | 0% | 38% | 0% | 75% | 56% |
| 7 |  | 6% | 25% | 0% | 69% | 38% |
| 8 |  | 0% | 25% | 0% | 63% | 44% |
| **Выживаемость** | | **1%** | **28%** | **1%** | **75%** | **42%** |
|  | **Коэффициент**  **Duncan** |  | **0.0000** | **1.0000** | **0.0000** | **0.0000** |
| **210 дней** | | | | | | |
| 1 |  | 0% | 0% | 0% | 69% | 6% |
| 2 |  | 0% | 6% | 0% | 75% | 0% |
| 3 |  | 0% | 0% | 0% | 75% | 0% |
| 4 |  | 0% | 0% | 0% | 69% | 0% |
| 5 |  | 0% | 0% | 6% | 75% | 0% |
| 6 |  | 0% | 0% | 0% | 81% | 0% |
| 7 |  | 0% | 0% | 0% | 75% | 0% |
| 8 |  | 0% | 0% | 0% | 56% | 0% |
| **Выживаемость** | | **0%** | **1%** | **1%** | **72%** | **1%** |
| **Коэффициент**  **Duncan** | |  | **0.3343** | **0.3343** | **0.0000** | **0.3343** |
| **240 дней** | | | | | | |
| 1 |  | 0% | 6% | 0% | 6% | 6% |
| 2 |  | 0% | 0% | 0% | 0% | 0% |
| 3 |  | 0% | 0% | 0% | 0% | 0% |
| 4 |  | 0% | 0% | 6% | 0% | 0% |

0% 0% 0% 0%

**Таблица 16.** Данные по рисунку 5. Выживаемость культур волосовидных корней, переживших долговременное хранение в условиях содержания маннитола (50 мМ).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 0% |  |  |  |  |
| 6 | 0% | 0% | 0% | 0% | 0% |
| 7 | 0% | 0% | 0% | 0% | 0% |
| 8 | 0% | 0% | 0% | 0% | 0% |
| **Выживаемость** | **0%** | **1%** | **1%** | **1%** | **1%** |
| **Коэффициент**  **Duncan** |  | **0.3343** | **0.3343** | **0.3343** | **0.3343** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| № чашки | Линии волосовидных корней | | | | |
| ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
| **0 дней (контрольные линии)** | | | | | |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 94% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 100% | 100% | 100% | 100% |
|  | 100% | 94% | 100% | 100% | 100% |
| **Выживаемость** | **99%** | **99%** | **100%** | **100%** | **100%** |
| **Коэффициент**  **Duncan** |  | **1.0000** | **0.3343** | **0.3343** | **0.3343** |
| **60 дней** | | | | | |
| 1 | 88% | 63% | 81% | 69% | 81% |
| 2 | 88% | 69% | 94% | 44% | 81% |
| 3 | 81% | 69% | 94% | 63% | 81% |
| 4 | 88% | 88% | 88% | 69% | 69% |
| 5 | 88% | 75% | 100% | 50% | 69% |
| 6 | 94% | 81% | 88% | 69% | 69% |
| 7 | 100% | 75% | 81% | 38% | 81% |
| 8 | 69% | 94% | 81% | 50% | 81% |
| **Выживаемость** | **87%** | **77%** | **88%** | **56%** | **77%** |
| **Коэффициент**  **Duncan** |  | **0.0570** | **0.7068** | **0.0001** | **0.0522** |
| **90 дней** | | | | | |
| 1 | 94% | 81% | 63% | 56% | 81% |
| 2 | 100% | 69% | 69% | 63% | 88% |
| 3 | 88% | 81% | 56% | 63% | 94% |
| 4 | 94% | 81% | 63% | 75% | 69% |
| 5 | 50% | 81% | 56% | 63% | 81% |
| 6 | 75% | 75% | 75% | 69% | 75% |
| 7 | 56% | 81% | 69% | 63% | 69% |
| 8 | 69% | 75% | 75% | 69% | 63% |
| **Выживаемость** | **78%** | **78%** | **66%** | **65%** | **77%** |
| **Коэффициент**  **Duncan** |  | **1.0000** | **0.0741** | **0.0500** | **0.9191** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **120 дней** | | | | | | |
| 1 |  | 88% | 94% | 56% | 63% | 81% |
| 2 |  | 81% | 94% | 50% | 69% | 81% |
| 3 |  | 81% | 88% | 63% | 63% | 75% |
| 4 |  | 81% | 88% | 63% | 56% | 75% |
| 5 |  | 75% | 88% | 50% | 44% | 69% |
| 6 |  | 63% | 88% | 69% | 44% | 81% |
| 7 |  | 75% | 88% | 56% | 38% | 88% |
| 8 |  | 69% | 75% | 44% | 50% | 100% |
| **Выживаемость** | | **77%** | **88%** | **56%** | **53%** | **81%** |
| **Коэффициент**  **Duncan** | |  | **0.0074** | **0.0002** | **0.0003** | **0.3026** |
| **150 дней** | | | | | | |
| 1 |  | 6% | 50% | 44% | 25% | 0% |
| 2 |  | 0% | 56% | 44% | 25% | 0% |
| 3 |  | 0% | 56% | 50% | 38% | 0% |
| 4 |  | 0% | 56% | 50% | 56% | 0% |
| 5 |  | 0% | 56% | 38% | 44% | 0% |
| 6 |  | 6% | 63% | 38% | 44% | 0% |
| 7 |  | 0% | 81% | 50% | 56% | 0% |
| 8 |  | 0% | 81% | 38% | 56% | 0% |
| **Выживаемость** | | **2%** | **63%** | **44%** | **43%** | **0%** |
| **Коэффициент**  **Duncan** | |  | **0.0000** | **0.0000** | **0.0000** | **0.1489** |
| **180 дней** | | | | | | |
| 1 |  | 0% | 0% | 38% | 0% | 0% |
| 2 |  | 0% | 0% | 25% | 0% | 0% |
| 3 |  | 0% | 0% | 19% | 0% | 0% |
| 4 |  | 0% | 0% | 25% | 0% | 0% |
| 5 |  | 0% | 0% | 31% | 0% | 0% |
| 6 |  | 0% | 0% | 19% | 0% | 0% |
| 7 |  | 6% | 6% | 25% | 0% | 0% |
| 8 |  | 0% | 0% | 19% | 0% | 0% |
| **Выживаемость** | | **1%** | **1%** | **25%** | **0%** | **0%** |
|  | **Коэффициент**  **Duncan** |  | **1.0000** | **0.0000** | **0.3343** | **0.3343** |
| **210 дней** | | | | | | |
| 1 |  | 0% | 0% | 0% | 0% | 0% |
| 2 |  | 0% | 0% | 0% | 0% | 0% |
| 3 |  | 0% | 0% | 0% | 0% | 0% |
| 4 |  | 0% | 0% | 0% | 0% | 0% |
| 5 |  | 0% | 0% | 0% | 0% | 0% |
| 6 |  | 0% | 0% | 0% | 0% | 0% |
| 7 |  | 0% | 0% | 0% | 0% | 0% |
| 8 |  | 0% | 0% | 0% | 6% | 0% |
| **Выживаемость** | | **0%** | **0%** | **0%** | **1%** | **0%** |
| **Коэффициент**  **Duncan** | |  | **1.0000** | **1.0000** | **0.3343** | **1.0000** |
| **240 дней** | | | | | | |
| 1 |  | 0% | 0% | 0% | 0% | 0% |
| 2 |  | 0% | 0% | 0% | 0% | 0% |

0% 0% 0% 0%

**Таблица 17.** Данные по рисунку 5. Выживаемость культур волосовидных корней, переживших долговременное хранение в условиях содержания соли NaCl (150 мМ).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3 | 0% |  |  |  |  |
| 4 | 0% | 0% | 0% | 0% | 0% |
| 5 | 0% | 0% | 0% | 0% | 0% |
| 6 | 0% | 0% | 0% | 0% | 0% |
| 7 | 0% | 0% | 0% | 0% | 0% |
| 8 | 0% | 0% | 0% | 0% | 0% |
| **Выживаемость** | **0%** | **0%** | **0%** | **0%** | **0%** |
| **Коэффициент**  **Duncan** |  | **1.0000** | **1.0000** | **1.0000** | **1.0000** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| № чашки | Линии волосовидных корней | | | | |
| ДИКИЙ  ТИП | L1 | L2 | L3 | L4 |
| **0 дней (контрольные линии)** | | | | | |
|  | 75% | 88% | 81% | 100% | 100% |
|  | 69% | 94% | 50% | 100% | 88% |
|  | 81% | 94% | 63% | 100% | 88% |
|  | 75% | 81% | 56% | 100% | 100% |
|  | 88% | 88% | 75% | 94% | 100% |
|  | 81% | 81% | 56% | 94% | 100% |
|  | 75% | 81% | 69% | 94% | 100% |
|  | 75% | 81% | 63% | 100% | 100% |
| **Выживаемость** | **77%** | **86%** | **64%** | **98%** | **97%** |
| **Коэффициент**  **Duncan** |  | **0.0086** | **0.0070** | **0.0000** | **0.0000** |
| **60 дней** | | | | | |
| 1 | 75% | 88% | 81% | 100% | 100% |
| 2 | 69% | 94% | 50% | 100% | 88% |
| 3 | 81% | 94% | 63% | 100% | 88% |
| 4 | 75% | 81% | 56% | 100% | 100% |
| 5 | 88% | 88% | 75% | 94% | 100% |
| 6 | 81% | 81% | 56% | 94% | 100% |
| 7 | 75% | 81% | 69% | 94% | 100% |
| 8 | 75% | 81% | 63% | 100% | 100% |
| **Выживаемость** | **77%** | **86%** | **64%** | **98%** | **97%** |
| **Коэффициент**  **Duncan** |  | **0.0086** | **0.0070** | **0.0000** | **0.0000** |
| **90 дней** | | | | | |
| 1 | 56% | 88% | 44% | 100% | 81% |
| 2 | 69% | 88% | 31% | 100% | 88% |
| 3 | 69% | 94% | 44% | 94% | 81% |
| 4 | 69% | 94% | 50% | 100% | 81% |
| 5 | 69% | 75% | 44% | 94% | 81% |
| 6 | 50% | 81% | 38% | 94% | 81% |
| 7 | 69% | 81% | 50% | 100% | 88% |
| 8 | 50% | 81% | 31% | 94% | 100% |
| **Выживаемость** | **63%** | **85%** | **41%** | **97%** | **85%** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Коэффициент**  **Duncan** | |  | **0.0000** | **0.0001** | **0.0000** | **0.0000** |
| **120 дней** | | | | | | |
| 1 |  | 44% | 88% | 0% | 100% | 75% |
| 2 |  | 31% | 81% | 0% | 94% | 69% |
| 3 |  | 25% | 81% | 0% | 94% | 69% |
| 4 |  | 31% | 75% | 0% | 94% | 50% |
| 5 |  | 31% | 88% | 0% | 94% | 56% |
| 6 |  | 19% | 88% | 0% | 100% | 75% |
| 7 |  | 19% | 69% | 0% | 100% | 44% |
| 8 |  | 25% | 56% | 6% | 94% | 88% |
| **Выживаемость** | | **28%** | **78%** | **1%** | **96%** | **66%** |
| **Коэффициент**  **Duncan** | |  | **0.0000** | **0.0000** | **0.0000** | **0.0000** |
| **150 дней** | | | | | | |
| 1 |  | 31% | 75% | 0% | 81% | 75% |
| 2 |  | 25% | 88% | 0% | 81% | 69% |
| 3 |  | 25% | 75% | 0% | 88% | 69% |
| 4 |  | 31% | 81% | 0% | 88% | 69% |
| 5 |  | 13% | 69% | 0% | 94% | 75% |
| 6 |  | 25% | 75% | 0% | 94% | 81% |
| 7 |  | 6% | 75% | 0% | 81% | 75% |
| 8 |  | 19% | 75% | 0% | 94% | 56% |
| **Выживаемость** | | **22%** | **77%** | **0%** | **88%** | **71%** |
| **Коэффициент**  **Duncan** | |  | **0.0000** | **0.0000** | **0.0000** | **0.0000** |
| **180 дней** | | | | | | |
| 1 |  | 0% | 63% | 0% | 75% | 0% |
| 2 |  | 0% | 56% | 0% | 81% | 0% |
| 3 |  | 0% | 63% | 0% | 75% | 0% |
| 4 |  | 0% | 75% | 0% | 88% | 0% |
| 5 |  | 0% | 69% | 0% | 75% | 0% |
| 6 |  | 0% | 75% | 0% | 63% | 0% |
| 7 |  | 0% | 63% | 0% | 69% | 0% |
| 8 |  | 6% | 56% | 0% | 81% | 0% |
| **Выживаемость** | | **1%** | **65%** | **0%** | **76%** | **0%** |
|  | **Коэффициент**  **Duncan** |  | **0.0049** | **1.0000** | **0.0036** | **1.0000** |
| **210 дней** | | | | | | |
| 1 |  | 0% | 56% | 0% | 63% | 0% |
| 2 |  | 0% | 75% | 0% | 88% | 0% |
| 3 |  | 0% | 69% | 0% | 69% | 0% |
| 4 |  | 0% | 50% | 0% | 69% | 0% |
| 5 |  | 0% | 63% | 0% | 81% | 0% |
| 6 |  | 0% | 56% | 0% | 81% | 0% |
| 7 |  | 0% | 63% | 0% | 75% | 0% |
| 8 |  | 0% | 50% | 0% | 69% | 0% |
| **Выживаемость** | | **0%** | **60%** | **0%** | **74%** | **0%** |
| **Коэффициент**  **Duncan** | |  | **0.0000** | **1.0000** | **0.0000** | **1.0000** |
| **240 дней** | | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 0% | 0% | 0% | 81% | 0% |
| 2 | 0% | 0% | 0% | 94% | 0% |
| 3 | 0% | 0% | 0% | 75% | 0% |
| 4 | 0% | 0% | 0% | 81% | 0% |
| 5 | 0% | 0% | 0% | 81% | 0% |
| 6 | 0% | 0% | 0% | 81% | 0% |
| 7 | 0% | 0% | 0% | 75% | 0% |
| 8 | 0% | 0% | 0% | 81% | 0% |
| **Выживаемость** | **0%** | **0%** | **0%** | **81%** | **0%** |
| **Коэффициент**  **Duncan** |  | **1.0000** | **1.0000** | **0.0000** | **1.0000** |

**Таблица 18.** Данные по рисунку 5. Прирост длины волосовидных корней, переживших долговременное хранение в условиях низких положительных температур (+3°С).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ДИКИЙ ТИП** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 22.2 | 23.2 | 23.6 | 24.0 | 28.6 | 22.7 | 29.9 | 24.6 |
|  | 23.2 |  | 23.4 | 23.9 | 26.4 |  |  | 24.6 |
|  | 22.9 | 24.1 | 23.1 | 25.6 | 26.2 | 22.9 | 30.0 | 25.5 |
|  | 22.6 | 23.3 | 22.9 | 23.5 | 27.3 | 23.7 | 28.6 | 25.2 |
|  | 22.3 | 23.5 |  | 23.7 | 28.0 | 25.0 | 29.2 | 26.1 |
|  | 23.3 | 23.9 | 24.9 | 24.7 |  |  |  | 25.1 |
|  | 22.3 | 25.3 | 24.0 | 24.5 | 26.7 | 24.4 | 29.4 | 24.9 |
|  | 23.0 | 25.3 | 22.8 | 25.6 | 27.4 | 24.4 | 29.7 | 23.9 |
|  | 23.6 | 24.4 | 24.2 | 25.0 | 28.7 | 25.0 | 29.4 |  |
|  | 22.8 | 23.1 |  | 23.6 |  |  |  | 25.2 |
|  | 22.5 | 23.8 | 23.1 | 25.1 | 26.2 | 24.4 | 29.2 | 26.1 |
|  | 22.9 |  | 23.5 | 24.4 | 27.0 | 24.0 | 28.9 | 24.5 |
|  | 23.7 | 23.3 | 23.8 | 25.5 | 28.1 | 24.0 | 29.2 | 24.7 |
|  | 22.9 | 24.2 | 23.5 |  | 28.1 |  |  | 23.9 |
|  | 23.2 | 23.8 | 23.9 | 23.7 | 26.1 | 22.8 | 28.6 | 24.8 |
|  | 21.8 | 25.4 | 25.1 | 25.1 | 27.8 | 23.0 | 27.4 |  |
|  | 22.8 | 23.4 | 23.7 | 25.9 | 26.8 | 23.8 | 27.9 | 25.1 |
|  |  | 25.1 | 23.6 | 25.9 | 27.6 | 23.5 | 28.7 | 23.8 |
|  | 22.2 | 24.8 | 25.0 |  |  | 24.0 |  | 26.0 |
|  | 22.7 | 24.5 |  | 23.6 | 27.9 | 23.4 | 29.1 | 26.1 |
|  | 22.9 |  | 23.2 | 25.2 | 26.1 | 23.2 | 27.8 | 25.8 |
|  | 21.9 | 23.4 | 23.7 | 25.9 | 27.6 |  | 29.9 | 25.3 |
|  | 22.6 | 23.0 | 23.4 |  | 27.3 | 22.8 | 27.2 | 23.8 |
|  | 22.1 | 23.8 | 23.4 | 25.8 | 27.8 | 23.1 | 27.7 | 23.9 |
|  | 22.2 | 24.7 | 22.9 | 24.4 | 26.4 | 22.8 | 29.0 | 24.9 |
|  | 21.9 | 23.2 | 23.3 | 23.5 | 28.1 | 24.7 | 28.1 | 24.9 |
|  | 23.7 | 23.4 | 22.8 | 24.7 | 28.1 | 24.0 | 28.8 |  |
|  | 22.0 | 24.8 | 25.0 | 23.9 | 27.5 | 24.9 | 29.0 | 25.6 |
|  | 22.4 | 25.0 | 23.7 | 25.0 | 27.8 | 25.0 |  | 23.7 |
|  | 22.0 | 23.6 | 24.4 | 24.3 | 27.1 | 23.4 | 28.2 | 25.0 |
|  | 23.7 | 23.3 | 24.6 | 25.8 | 28.1 | 23.0 | 27.5 | 25.8 |
|  | 22.5 | 24.5 | 23.2 | 23.6 | 26.5 | 23.4 | 27.7 | 24.1 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 23.2 | 25.0 | 23.0 | 24.8 | 27.5 | 23.3 | 28.3 | 26.1 |
|  | 23.3 | 23.8 | 22.9 |  | 26.5 | 24.4 |  | 24.4 |
|  | 22.3 | 23.6 | 22.9 | 25.3 | 26.4 | 24.2 | 29.7 | 25.1 |
|  | 21.8 | 25.3 | 25.0 | 24.6 |  | 23.1 | 27.9 | 24.7 |
|  | 22.7 | 25.2 | 25.1 | 24.0 |  |  | 29.3 | 25.7 |
|  | 22.8 | 23.6 | 24.9 | 23.9 | 26.8 | 24.4 | 28.9 |  |
|  | 22.2 | 24.9 | 23.1 |  | 27.6 | 24.5 | 27.9 | 25.1 |
|  | 22.3 | 24.7 | 23.8 | 24.3 |  | 24.9 |  | 24.7 |
|  | 22.1 | 24.6 |  | 25.2 | 27.9 | 22.8 | 28.9 | 25.7 |
|  | 23.5 | 23.3 | 22.8 | 25.1 | 26.6 |  | 28.9 | 24.0 |
|  | 22.2 |  | 23.4 | 24.5 | 28.0 | 22.9 | 27.5 | 26.0 |
|  | 22.2 | 23.2 | 23.4 | 25.5 | 28.7 | 23.6 | 27.4 | 23.7 |
|  | 22.2 | 24.2 | 24.3 | 24.7 | 28.7 | 24.9 | 27.5 | 24.4 |
|  | 21.6 | 24.8 | 22.9 | 24.4 | 27.7 | 24.7 | 27.9 | 24.4 |
|  | 22.2 | 24.6 | 24.9 | 24.0 | 27.4 | 24.5 | 28.4 | 25.6 |
|  | 22.2 | 23.0 | 23.1 | 25.4 | 26.3 |  |  | 24.6 |
|  | 22.3 | 25.0 | 24.4 | 24.3 | 28.3 | 22.7 | 28.9 | 24.7 |
|  | 23.7 | 24.3 | 23.6 | 23.5 | 26.4 | 24.7 |  | 25.3 |
|  | 21.9 | 24.5 | 24.6 | 23.6 | 28.3 | 23.3 | 28.2 | 23.8 |
|  | 23.0 | 24.6 | 23.6 | 24.5 | 27.1 | 23.8 | 29.4 | 23.9 |
|  | 23.0 |  | 23.2 | 24.0 | 26.1 | 22.8 |  | 24.1 |
|  | 22.4 | 23.2 | 24.1 | 24.3 | 26.2 | 23.3 | 29.4 | 25.2 |
|  | 23.6 | 24.3 | 22.9 | 25.4 | 27.6 | 24.8 | 28.4 | 24.6 |
|  | 22.5 | 24.6 | 25.1 | 25.9 | 26.3 | 23.3 | 29.0 | 25.8 |
|  | 22.8 | 25.4 | 25.0 | 26.0 | 27.4 | 23.8 | 27.6 | 24.5 |
|  | 23.3 | 23.5 | 23.0 | 24.5 | 27.9 |  | 28.5 | 25.4 |
|  | 22.5 |  | 23.5 | 24.2 | 26.4 | 24.1 | 29.5 | 25.9 |
|  | 22.6 | 24.2 | 25.0 | 25.6 |  | 24.0 | 28.4 | 26.0 |
|  | 21.6 | 24.7 | 23.2 | 25.0 | 28.1 | 24.1 | 28.8 | 24.6 |
|  | 21.8 | 23.9 | 23.1 | 25.9 |  | 23.0 | 27.6 | 24.8 |
|  | 21.8 | 25.4 | 25.0 |  | 27.4 |  | 28.5 | 24.9 |
|  | 22.7 | 24.9 | 24.1 | 24.1 | 26.9 | 23.7 | 29.6 | 25.9 |
|  | 21.9 | 24.0 | 23.1 | 23.6 |  | 24.0 | 28.0 | 26.0 |
|  | 22.5 | 23.8 |  | 23.9 | 28.7 | 23.2 | 29.8 | 24.0 |
|  | 22.4 |  | 23.8 | 25.6 | 28.5 | 23.9 | 28.9 | 23.9 |
|  | 22.4 | 25.0 | 25.0 | 24.1 | 26.4 | 24.2 | 27.9 | 24.4 |
|  | 23.2 | 23.3 | 24.2 | 25.2 |  | 24.0 |  | 25.8 |
|  | 23.8 | 25.0 | 23.5 | 24.3 | 26.3 | 24.3 | 29.7 | 25.0 |
|  | 23.5 | 25.1 | 23.8 | 25.3 | 26.9 | 22.9 | 27.5 | 24.7 |
|  | 21.7 | 23.6 | 23.4 | 23.8 | 26.6 |  | 27.7 | 26.1 |
|  | 22.6 | 25.3 | 23.9 | 25.3 | 26.5 | 24.8 | 28.4 | 24.6 |
|  | 23.3 | 24.8 | 24.8 | 23.7 |  | 23.9 | 29.0 | 26.0 |
|  | 23.3 | 24.7 | 25.2 | 24.2 | 28.4 |  | 29.7 | 23.9 |
|  | 21.9 | 24.3 | 23.6 | 25.8 | 26.9 | 23.6 | 29.2 | 24.0 |
|  | 21.7 |  | 23.8 | 24.0 | 27.8 | 23.5 | 29.0 | 26.1 |
|  | 23.1 | 23.4 | 23.3 | 23.5 | 27.7 | 22.7 | 27.6 | 24.8 |
|  | 21.9 | 23.4 | 24.5 | 25.7 | 26.9 | 24.7 | 29.6 |  |
|  | 23.2 | 23.2 |  | 24.7 | 27.8 | 23.6 | 29.0 | 24.1 |
|  | 23.7 | 23.2 | 24.0 | 25.7 | 26.1 | 23.8 |  | 24.1 |
|  | 23.3 | 23.0 | 25.1 | 24.5 | 26.1 | 24.2 | 29.9 | 26.1 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 23.8 | 25.1 | 23.8 | 26.0 | 28.4 | 22.7 | 27.3 | 25.9 |
|  | 23.5 | 24.7 | 23.4 | 25.0 | 28.2 | 23.6 | 29.5 | 24.1 |
|  | 23.4 | 24.1 | 25.0 |  | 28.0 | 23.0 | 28.9 | 23.7 |
|  | 23.1 | 23.4 | 23.5 | 24.7 | 27.8 | 22.9 |  | 25.1 |
|  | 23.8 | 24.1 | 23.8 | 23.5 | 27.0 | 23.7 | 28.9 | 23.8 |
|  | 22.4 | 25.1 | 24.8 |  |  | 23.8 | 29.1 | 25.8 |
|  | 23.2 | 24.0 | 24.4 | 25.7 | 27.7 | 25.0 | 29.4 | 25.8 |
|  | 23.4 | 25.1 | 24.4 | 24.5 | 26.1 | 23.1 | 28.2 | 24.6 |
|  | 22.4 | 23.5 | 23.8 | 25.9 |  | 23.9 |  |  |
|  | 21.8 | 25.3 | 23.9 | 25.7 | 27.9 | 23.2 | 28.8 | 24.3 |
|  | 22.5 |  | 23.4 | 25.9 | 27.4 | 22.9 | 29.3 | 23.8 |
|  | 23.3 | 23.4 | 23.0 | 24.0 | 27.3 | 23.7 | 28.4 | 25.1 |
|  | 22.8 | 23.7 | 24.5 | 24.4 |  | 23.9 | 29.4 | 25.0 |
|  | 23.8 | 23.0 | 24.2 |  | 28.2 |  |  | 24.5 |
|  | 22.1 | 23.8 | 24.1 | 25.7 | 28.4 | 22.7 | 27.3 | 25.0 |
|  | 22.2 | 24.2 | 22.9 | 25.2 | 26.4 | 22.7 | 29.5 | 25.5 |
|  | 21.7 | 23.4 | 24.1 | 24.3 |  | 24.7 | 29.5 | 24.5 |
|  | 22.5 | 24.7 | 24.6 | 24.5 | 26.3 | 24.8 | 27.8 | 25.1 |
|  | 22.6 | 24.8 | 24.5 | 25.2 |  | 24.8 | 27.6 | 25.8 |
|  | 22.1 | 24.0 | 22.8 | 24.4 | 27.4 | 25.0 | 27.9 | 25.0 |
|  | 23.8 | 24.6 | 24.5 | 25.6 | 26.1 | 22.9 | 27.5 | 24.9 |
|  | 22.9 | 24.1 | 23.8 | 24.5 | 27.0 | 24.5 | 27.8 | 26.1 |
|  | 23.6 | 23.1 | 24.7 |  | 27.8 | 24.5 | 27.3 | 25.3 |
|  | 23.5 | 23.2 | 24.5 | 25.7 | 26.0 |  | 29.5 |  |
|  | 22.6 | 23.5 |  | 25.4 |  | 22.8 |  | 25.0 |
|  | 22.3 | 25.1 | 22.7 | 24.5 | 28.2 | 23.7 | 29.9 | 25.5 |
|  | 23.6 | 23.4 | 24.2 | 25.8 |  | 24.4 | 28.2 |  |
|  | 23.2 |  | 25.0 | 26.0 | 27.1 | 23.9 | 28.6 | 23.9 |
|  | 23.1 | 24.0 | 23.7 | 23.6 | 26.1 | 24.1 |  | 24.9 |
|  | 22.6 | 24.2 | 23.9 | 24.8 | 27.4 | 24.6 | 29.9 | 24.8 |
|  | 22.0 | 24.9 | 24.3 | 24.2 | 28.4 | 23.1 | 28.4 | 24.3 |
|  | 23.4 | 25.2 | 25.0 | 25.0 | 27.3 | 24.7 | 28.5 | 23.7 |
|  | 22.5 | 24.3 | 24.5 | 23.8 |  | 25.0 | 28.6 | 24.3 |
|  | 23.8 | 24.7 | 24.5 | 25.9 | 26.1 | 22.9 |  | 24.2 |
|  | 22.0 | 24.1 | 24.6 | 24.2 | 26.9 | 24.2 | 28.2 | 24.1 |
|  | 22.9 | 24.9 | 23.8 | 25.4 | 26.8 | 24.6 | 29.3 | 25.7 |
|  | 22.4 | 23.5 | 24.8 |  | 27.2 | 24.6 | 29.2 | 25.0 |
|  | 22.9 | 25.3 | 23.1 | 23.6 | 26.4 | 23.0 | 28.1 | 25.3 |
|  | 23.0 | 24.6 | 23.8 | 23.7 | 27.2 | 24.4 | 28.5 | 23.9 |
|  | 22.9 | 23.5 | 24.5 | 24.4 | 28.5 | 24.5 |  | 24.2 |
|  | 22.7 | 25.1 | 23.3 | 25.9 | 28.4 | 24.3 | 27.9 | 24.9 |
|  | 22.6 | 23.7 |  |  | 27.7 | 24.8 | 27.1 | 25.5 |
|  | 21.9 | 25.1 | 24.1 | 24.2 | 27.5 | 22.9 | 29.2 |  |
|  | 22.4 |  | 23.0 | 24.7 | 27.8 | 24.0 | 29.6 | 24.1 |
|  | 21.6 | 23.5 | 23.8 | 23.5 | 26.4 | 24.9 | 27.7 | 24.8 |
|  | 23.4 | 23.4 | 23.0 | 25.4 | 27.6 | 23.9 | 27.3 | 24.0 |
| **Среднее** | **22.692** | **24.172** | **23.895** | **24.730** | **27.290** | **23.829** | **28.616** | **24.873** |
| **Максимум** | **23.8** | **25.4** | **25.2** | **26.0** | **28.7** | **25.0** | **30.0** | **26.1** |
| **Минимум** | **21.6** | **23.0** | **22.7** | **23.5** | **26.0** | **22.7** | **27.1** | **23.7** |
| **L1** | | | | | | | | |

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|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 35.7 | 34.1 | 33.3 | 40.0 | 42.1 | 42.6 | 36.3 | 36.2 |
|  | 34.9 | 33.3 | 33.6 | 40.4 | 42.1 | 42.2 | 35.7 | 36.4 |
|  | 37.9 | 33.6 | 36.6 | 40.9 | 41.8 | 42.3 |  | 35.4 |
|  | 36.2 | 33.9 | 33.4 | 40.5 |  | 40.5 | 37.1 | 36.6 |
|  | 37.5 | 33.9 | 33.7 |  | 41.1 | 40.8 | 35.7 | 38.7 |
|  | 37.7 | 34.1 | 34.5 | 41.3 | 43.2 | 41.3 | 36.8 |  |
|  | 36.0 | 34.1 | 33.5 | 39.9 | 40.9 |  | 34.9 | 38.2 |
|  | 35.0 | 34.0 | 36.1 | 39.6 | 42.4 | 40.3 | 36.9 | 36.8 |
|  | 36.0 | 35.5 | 36.3 | 40.8 | 40.4 | 40.3 |  | 38.0 |
|  | 36.3 | 34.1 | 35.3 | 40.9 | 41.2 |  | 37.0 | 36.6 |
|  | 34.8 | 35.4 | 35.6 | 39.7 | 41.0 | 41.9 | 35.5 | 37.4 |
|  | 37.2 | 36.1 | 35.3 | 39.3 | 43.4 | 42.3 | 34.6 |  |
|  | 36.1 | 36.2 | 36.8 | 40.4 | 40.5 | 42.1 | 37.4 | 36.1 |
|  | 37.3 | 36.1 | 36.8 | 39.1 | 42.0 | 40.3 | 37.9 | 36.7 |
|  | 37.9 | 34.8 | 33.7 | 40.8 | 42.9 | 38.7 | 36.6 | 38.0 |
|  | 38.2 | 36.5 | 36.5 |  | 41.4 | 40.1 | 38.0 | 37.8 |
|  | 36.0 | 34.5 | 34.4 | 41.5 | 41.3 | 41.2 | 37.6 | 38.1 |
|  | 37.6 | 33.5 | 35.6 | 40.4 | 42.9 | 42.1 | 37.5 | 37.0 |
|  | 35.2 | 35.0 | 36.1 | 40.6 | 41.2 | 40.3 | 35.6 | 35.8 |
|  | 36.0 | 35.1 | 36.2 | 39.6 | 41.9 | 39.5 | 35.0 | 35.3 |
|  | 38.1 | 33.3 | 36.5 |  | 43.1 | 40.9 | 36.1 | 35.8 |
|  | 37.5 | 33.6 | 34.9 | 41.2 | 41.0 | 39.9 | 36.1 | 36.5 |
|  | 37.3 | 35.1 | 36.6 | 39.4 | 43.1 | 41.0 | 35.1 | 36.0 |
|  | 35.2 | 36.1 | 34.0 | 39.3 |  | 42.6 | 34.7 | 37.7 |
|  | 36.0 | 33.2 | 34.3 | 38.8 | 40.8 | 39.2 | 34.7 | 37.7 |
|  | 38.1 | 33.1 | 35.0 | 41.7 | 40.0 | 40.0 | 36.7 | 38.8 |
|  | 35.1 | 35.7 | 34.5 | 40.7 | 42.8 | 39.1 | 36.8 | 35.5 |
|  | 37.2 | 36.4 | 36.6 | 38.9 | 40.6 | 40.0 | 35.8 | 35.3 |
|  | 35.3 | 34.7 | 35.4 | 41.3 | 39.8 | 38.8 | 36.3 | 37.9 |
|  | 35.6 | 34.0 | 35.9 | 38.5 | 42.6 | 40.7 | 35.6 | 37.9 |
|  | 35.6 | 34.8 | 34.0 | 40.6 | 40.4 | 38.8 | 37.7 | 36.9 |
|  | 36.0 | 33.9 | 35.2 | 39.0 | 42.0 | 41.6 | 36.8 | 38.7 |
|  | 37.9 | 34.9 | 34.6 | 41.3 | 39.6 | 40.2 | 37.5 | 37.9 |
|  | 37.2 | 36.2 | 34.1 | 39.5 | 41.9 | 38.8 | 38.1 | 36.3 |
|  | 37.6 | 35.4 | 33.8 | 39.1 | 42.5 | 39.8 | 38.1 | 38.6 |
|  | 34.8 | 36.1 | 34.1 | 39.1 | 39.7 |  | 35.8 | 36.7 |
|  | 37.9 | 34.3 | 34.5 | 41.4 | 40.6 | 41.4 | 34.5 | 35.5 |
|  | 35.0 | 36.1 | 35.9 | 38.6 | 43.2 | 39.0 | 36.6 | 37.4 |
|  | 37.3 | 34.9 | 35.5 | 41.9 | 42.6 | 41.2 | 36.1 | 37.2 |
|  | 34.8 |  | 35.6 | 41.1 | 40.2 | 39.4 | 38.0 | 36.9 |
|  | 36.2 | 36.5 | 36.5 | 40.6 | 43.1 | 40.5 | 36.2 | 35.6 |
|  | 36.5 | 35.7 | 33.7 | 39.8 | 39.7 | 39.9 | 37.8 | 36.0 |
|  | 38.1 | 33.8 | 35.7 | 38.8 | 40.2 | 41.2 | 36.9 | 38.9 |
|  | 34.9 | 34.2 | 35.1 | 38.1 | 40.4 | 38.9 | 36.6 | 35.3 |
|  | 36.0 | 36.4 | 35.8 | 41.1 | 41.4 | 39.8 | 37.6 | 36.2 |
|  | 35.1 | 35.8 | 34.3 | 40.0 | 41.8 | 40.4 | 35.6 | 37.8 |
|  | 35.7 | 35.3 | 34.1 | 41.4 | 41.5 | 41.0 | 37.2 | 35.8 |
|  | 34.7 | 35.3 | 33.3 | 40.6 | 39.4 | 38.6 | 37.2 | 36.6 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 35.2 | 34.3 | 35.0 | 40.9 | 42.2 | 42.5 | 36.4 | 38.1 |
|  | 36.9 | 33.8 | 35.8 | 41.6 | 43.1 | 40.1 | 36.1 | 36.4 |
|  | 35.0 | 36.1 | 36.2 | 38.2 | 39.6 | 42.5 | 35.8 |  |
|  | 35.8 | 33.1 | 36.3 | 39.9 | 39.7 | 42.0 | 34.5 | 36.0 |
|  | 37.7 | 33.4 | 35.4 | 41.5 | 40.6 | 41.2 | 35.4 |  |
|  | 37.6 | 35.5 | 35.0 | 41.7 | 43.3 | 39.3 | 34.9 | 38.4 |
|  | 37.5 | 35.5 | 36.5 | 40.9 | 42.5 | 39.2 | 35.6 | 36.9 |
|  | 35.6 | 36.1 | 34.6 | 39.3 | 43.2 | 40.0 | 35.9 | 35.8 |
|  | 36.2 | 34.7 | 33.4 | 40.2 | 41.1 | 38.8 | 37.7 | 37.7 |
|  | 37.9 | 35.8 | 33.6 | 38.4 | 41.4 | 39.6 |  | 38.7 |
|  | 35.4 | 33.8 | 33.7 | 39.7 | 42.5 | 40.6 | 37.7 |  |
|  | 35.2 | 35.6 | 36.2 | 41.9 | 40.2 | 42.5 | 36.1 | 38.7 |
|  | 35.4 | 33.6 | 33.4 | 41.5 | 41.5 |  |  | 36.2 |
|  | 35.0 | 35.5 | 35.7 | 40.9 | 40.9 | 39.6 | 35.6 | 38.0 |
|  | 34.9 |  | 35.1 | 39.8 | 39.7 | 42.1 | 35.8 | 37.8 |
|  | 36.4 | 33.2 | 34.3 | 38.3 | 41.5 | 41.6 | 38.1 | 37.0 |
|  | 37.0 | 36.2 | 36.8 | 39.6 | 41.1 | 39.7 | 36.6 | 38.6 |
|  | 37.7 | 33.5 | 34.0 | 41.5 | 39.8 | 41.5 | 36.6 | 35.4 |
|  | 35.0 | 34.5 | 35.1 | 38.4 | 39.8 | 39.3 | 34.7 | 38.7 |
|  | 34.8 | 35.0 | 36.7 | 41.7 | 43.0 |  | 37.9 |  |
|  | 35.2 | 33.4 | 36.8 | 40.2 | 39.6 | 38.6 | 37.6 | 38.7 |
|  | 34.9 | 34.1 | 34.5 | 40.4 | 43.3 | 40.8 | 36.9 | 38.1 |
|  | 36.7 | 36.5 |  | 39.3 | 41.0 | 42.4 | 36.3 | 38.6 |
|  | 36.0 | 34.8 | 35.0 | 39.5 | 42.6 | 40.0 | 34.9 | 38.4 |
|  | 35.7 | 34.3 | 36.5 | 39.1 | 40.1 | 42.6 | 34.9 | 38.2 |
|  | 37.0 | 36.0 | 34.1 | 42.1 | 40.8 | 39.5 | 36.2 | 35.4 |
|  | 37.0 | 35.3 | 35.1 |  | 39.8 | 41.1 | 36.4 |  |
|  | 38.2 | 35.2 | 34.5 | 38.9 | 42.5 | 40.7 | 36.1 | 38.5 |
|  | 36.1 | 33.8 | 35.6 | 40.9 | 40.1 | 39.9 | 35.2 | 38.0 |
|  | 38.1 | 35.1 | 33.8 | 41.4 | 40.5 | 42.2 | 35.9 | 38.3 |
|  | 35.7 | 35.9 | 35.3 | 40.8 | 41.3 | 38.8 | 35.8 | 37.5 |
|  | 35.3 | 35.4 | 33.9 | 39.0 | 41.3 | 39.4 |  | 37.1 |
|  | 36.9 | 36.5 | 34.5 | 38.2 | 42.9 | 42.5 | 36.8 | 36.4 |
|  | 36.5 | 36.1 | 34.8 | 38.2 | 42.6 | 42.5 | 36.9 | 38.8 |
|  | 37.7 | 34.6 | 36.5 | 41.3 | 40.9 | 41.6 | 34.5 | 36.3 |
|  | 35.7 | 33.1 | 34.7 | 39.2 | 42.9 | 39.9 | 35.2 | 37.0 |
|  | 36.3 | 36.1 | 34.7 | 41.5 |  | 39.3 | 37.3 | 38.3 |
|  | 36.5 | 35.2 | 34.1 |  | 42.8 |  | 36.5 | 37.5 |
|  | 35.9 | 35.2 | 35.0 | 40.2 | 42.4 | 41.0 |  | 36.4 |
|  | 37.4 | 33.6 | 34.5 | 41.4 | 40.3 | 40.4 | 37.0 | 35.2 |
|  | 38.2 | 35.5 | 34.3 | 40.0 | 40.8 | 40.5 | 34.7 | 37.2 |
|  | 36.1 | 34.1 | 35.7 | 39.2 | 40.6 | 40.6 | 37.8 | 35.4 |
|  | 34.8 | 33.6 | 36.6 | 39.9 | 40.1 | 42.7 | 37.1 | 37.7 |
|  | 38.1 | 35.5 | 35.7 | 40.3 | 42.3 | 40.4 | 34.6 | 38.2 |
|  | 35.5 | 34.4 | 35.8 | 40.5 | 43.3 | 40.0 | 35.4 | 35.4 |
|  | 36.4 | 34.4 | 36.0 | 38.8 | 41.4 | 41.0 | 35.3 |  |
|  | 35.8 |  | 34.2 | 38.7 | 43.4 | 41.8 | 37.8 | 36.0 |
|  | 36.5 | 34.3 | 33.7 | 41.1 | 42.1 | 40.7 | 37.5 | 36.9 |
|  | 37.9 | 36.0 | 33.4 | 38.7 | 40.2 | 41.6 | 36.3 | 36.1 |
|  | 34.9 | 35.6 | 35.5 | 39.1 | 43.1 | 38.7 | 36.5 | 37.5 |

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|  | 37.3 | 33.3 | 36.3 | 41.2 | 39.3 | 40.8 | 37.1 |  |
|  | 37.9 | 36.4 | 34.8 | 39.3 | 41.3 | 40.9 | 36.4 | 38.1 |
|  | 37.2 | 36.2 | 34.8 | 38.7 | 40.4 | 40.7 | 36.6 | 35.9 |
|  | 37.2 | 35.2 | 36.3 |  | 41.7 | 40.8 | 38.1 | 35.3 |
|  | 37.1 | 36.4 | 36.2 | 38.1 | 42.5 | 42.6 | 35.9 | 38.7 |
|  | 38.0 | 34.8 | 35.0 | 40.7 | 41.2 | 40.2 | 37.0 | 36.0 |
|  | 36.8 | 33.3 | 36.2 | 40.3 | 40.3 | 40.2 | 34.8 | 35.2 |
|  | 35.9 | 35.5 | 34.4 | 40.8 | 43.3 | 39.9 | 36.6 | 38.8 |
|  | 36.5 | 33.6 | 35.7 | 40.2 | 39.3 | 41.1 | 35.9 | 36.1 |
|  | 36.2 | 36.1 | 33.9 | 38.7 | 39.8 |  | 34.8 | 38.5 |
|  | 35.2 | 36.0 | 33.7 | 39.9 | 43.1 | 41.3 | 35.7 | 35.2 |
|  | 37.1 | 33.4 | 36.0 | 40.9 | 40.4 | 40.8 | 37.3 | 38.7 |
|  | 37.9 |  | 34.9 | 41.5 | 40.2 | 41.0 | 36.4 | 38.3 |
|  | 36.0 | 35.7 | 33.3 | 41.9 | 42.3 | 42.3 | 34.6 |  |
|  | 35.6 | 33.4 | 35.3 | 41.7 | 39.4 | 39.5 | 35.9 | 38.2 |
|  | 36.2 | 33.7 | 35.4 | 41.9 | 43.4 | 39.1 | 34.5 | 38.0 |
|  | 37.5 | 35.6 | 34.8 | 38.7 | 42.3 | 40.5 |  | 38.9 |
|  | 35.9 | 33.8 | 33.5 | 41.8 | 41.0 | 41.2 | 37.8 | 35.7 |
|  |  |  | 34.3 | 41.5 | 40.3 | 40.7 | 37.5 | 38.6 |
|  | 37.8 | 34.3 | 33.7 | 41.2 | 42.5 | 39.1 | 36.7 | 25.4 |
|  | 37.8 | 33.3 | 33.5 | 38.8 | 40.0 | 42.1 | 38.1 | 35.9 |
|  | 37.8 | 35.2 | 34.3 | 40.1 |  | 41.9 | 35.8 | 38.0 |
|  | 35.8 | 34.9 | 36.3 | 42.0 | 40.1 | 39.6 | 34.5 |  |
|  | 35.6 | 36.4 |  | 39.4 | 42.0 | 40.9 | 35.9 | 35.3 |
|  | 37.9 | 34.5 | 36.5 | 40.8 | 43.4 | 40.4 | 38.0 | 37.9 |
|  | 38.0 | 35.6 | 34.2 |  | 41.1 | 38.7 | 34.5 | 38.0 |
|  | 37.5 | 35.4 | 36.2 | 39.6 | 42.6 | 41.1 | 36.2 | 35.5 |
|  | 37.8 | 35.8 | 34.2 | 41.0 | 42.7 | 39.3 |  | 35.8 |
|  | 35.5 | 34.6 | 34.7 | 40.0 | 42.6 | 39.0 | 37.1 | 35.2 |
|  | 34.9 | 33.9 | 36.4 | 39.4 |  | 40.4 | 36.4 | 38.1 |
| **Среднее** | **36.448** | **34.853** | **35.037** | **40.173** | **41.439** | **40.577** | **36.329** | **37.002** |
| **Максимум** | **38.2** | **36.5** | **36.8** | **42.1** | **43.4** | **42.7** | **38.1** | **38.9** |
| **Минимум** | **34.7** | **33.1** | **33.3** | **38.1** | **39.3** | **38.6** | **34.5** | **25.4** |
| **L2** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 34.8 | 34.5 | 34.2 | 33.1 | 32.9 | 36.9 | 35.4 | 38.4 |
|  | 32.2 | 35.6 | 34.6 | 32.4 | 31.5 |  | 36.6 | 36.1 |
|  | 33.1 | 28.9 |  | 32.1 | 31.8 | 36.6 | 36.4 | 38.8 |
|  | 34.6 | 34.5 | 33.6 |  | 33.4 | 34.9 |  | 39.0 |
|  | 35.0 | 34.4 | 33.7 | 32.2 | 32.4 | 37.0 | 35.3 | 36.8 |
|  | 34.5 | 33.5 | 33.8 | 30.4 | 31.1 | 35.5 | 35.6 |  |
|  | 34.5 | 34.1 | 33.8 | 30.5 | 31.8 | 33.8 | 37.6 | 36.5 |
|  | 32.3 | 35.6 |  |  | 32.3 | 35.4 |  | 37.4 |
|  | 32.3 | 34.3 | 33.4 | 33.3 | 32.0 | 34.4 | 37.1 | 36.0 |
|  | 34.7 | 33.0 | 34.2 | 31.2 | 31.1 |  | 36.5 | 37.7 |
|  | 32.5 | 33.0 | 34.8 | 30.6 | 32.8 | 35.1 | 36.6 | 35.9 |
|  | 35.0 | 34.5 | 33.1 | 33.0 | 33.1 | 34.2 |  | 35.6 |
|  | 33.6 | 33.2 | 35.8 | 31.6 | 33.2 | 33.8 | 36.0 | 36.0 |
|  | 35.1 | 35.2 | 35.8 |  | 31.1 |  | 35.1 | 37.2 |

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|  | 33.5 |  | 33.2 | 33.3 | 31.1 | 36.0 | 35.6 | 37.9 |
|  | 32.8 | 35.4 | 33.4 | 31.3 | 33.2 | 34.0 | 37.2 |  |
|  | 32.6 | 35.1 | 35.9 | 31.6 | 32.1 | 36.6 | 34.2 | 36.0 |
|  | 33.4 | 34.2 | 33.0 | 30.9 | 31.4 | 35.4 |  | 36.5 |
|  | 32.2 | 32.6 |  | 30.9 | 32.9 | 35.8 | 36.4 | 37.2 |
|  | 33.3 | 34.2 | 35.4 | 30.3 | 32.5 | 34.0 | 36.5 | 38.7 |
|  | 34.4 | 33.3 | 33.2 | 33.0 | 31.9 | 33.9 | 37.1 | 37.3 |
|  | 32.9 |  | 33.1 | 30.2 | 33.1 | 35.6 | 36.1 | 38.9 |
|  | 32.7 | 35.4 | 32.7 | 32.5 | 30.8 | 34.2 | 37.2 | 35.9 |
|  | 34.4 | 35.0 | 32.9 | 31.4 | 30.7 | 37.0 | 36.3 | 37.2 |
|  | 34.6 | 33.6 | 35.0 | 32.4 | 33.2 | 37.3 |  | 36.3 |
|  | 33.1 | 35.8 | 33.3 | 30.8 | 33.7 | 34.1 | 37.7 | 38.1 |
|  | 33.6 | 33.1 | 33.6 | 31.2 | 31.9 | 36.5 | 36.3 | 38.0 |
|  | 33.4 | 34.7 | 34.1 | 33.3 | 33.6 | 36.1 | 34.4 | 38.5 |
|  | 32.6 | 33.8 | 32.8 | 31.7 | 31.9 | 34.0 | 35.4 | 38.9 |
|  | 32.2 | 34.4 |  | 33.1 | 33.3 | 36.3 | 37.0 | 35.8 |
|  | 32.9 | 33.4 | 33.4 | 30.3 | 31.8 | 36.0 | 35.2 |  |
|  | 34.6 | 35.3 | 34.9 | 30.6 | 31.1 | 35.4 | 34.4 | 35.7 |
|  | 34.9 | 32.6 | 34.3 |  | 30.7 | 35.9 | 34.2 | 36.8 |
|  | 33.2 | 35.7 | 34.0 |  | 31.3 | 36.3 | 37.2 | 36.5 |
|  | 32.3 | 32.8 | 33.5 | 31.1 | 33.6 | 34.8 | 37.1 | 36.5 |
|  | 33.8 | 35.9 | 34.3 | 32.0 | 32.6 | 34.1 |  | 37.4 |
|  | 33.6 | 33.7 | 33.7 | 30.5 | 32.3 | 34.0 | 36.1 | 35.4 |
|  | 33.2 | 35.8 | 33.3 |  | 32.3 | 35.5 | 36.6 | 36.8 |
|  | 35.1 | 32.9 |  | 30.7 | 31.7 | 37.2 | 36.3 |  |
|  | 34.1 | 35.4 | 35.7 | 30.1 | 30.7 | 35.6 | 36.5 | 36.7 |
|  | 34.2 | 35.1 | 32.6 | 32.8 | 30.9 |  | 34.3 | 36.2 |
|  | 32.7 | 35.0 | 35.4 | 30.3 | 30.5 | 33.8 | 36.0 | 37.3 |
|  | 34.9 | 33.2 | 33.1 | 30.9 | 33.6 | 35.5 | 35.3 | 37.6 |
|  | 33.8 |  | 34.2 | 31.9 | 32.6 | 36.3 |  | 35.8 |
|  | 32.3 | 34.5 | 33.8 | 33.3 | 30.9 | 35.0 | 37.4 | 36.9 |
|  | 34.7 | 33.4 | 33.8 | 31.8 | 32.3 | 36.4 | 34.3 | 37.0 |
|  | 34.5 | 33.0 | 32.8 | 30.5 | 32.2 | 36.8 | 34.6 | 37.2 |
|  | 32.7 | 35.0 | 33.5 |  | 30.7 | 37.3 | 36.3 |  |
|  | 34.6 | 33.6 | 33.2 | 31.5 | 31.8 | 33.9 |  | 38.5 |
|  | 35.0 | 35.2 | 33.5 | 32.6 | 31.3 | 37.2 | 35.8 | 39.1 |
|  | 33.1 | 32.7 |  | 30.7 | 33.3 | 35.2 | 37.4 | 36.3 |
|  | 34.6 | 35.7 | 32.9 | 33.1 | 32.9 |  | 37.3 | 39.1 |
|  | 34.0 | 33.3 | 35.7 | 31.6 | 31.6 | 36.1 | 36.3 | 38.6 |
|  | 33.2 | 36.0 | 34.2 | 33.3 | 32.2 | 35.3 | 36.7 |  |
|  | 32.8 | 33.1 | 35.0 | 31.3 | 33.1 | 36.0 | 37.6 | 37.5 |
|  | 32.2 | 32.6 | 34.0 |  | 31.3 | 33.9 | 37.4 | 38.8 |
|  | 32.4 | 33.4 | 35.6 | 31.1 | 32.9 | 34.0 | 35.2 | 37.9 |
|  | 33.0 | 35.1 | 35.6 | 30.5 | 31.3 | 34.2 |  |  |
|  | 33.1 | 34.6 | 32.6 | 30.6 | 31.4 | 34.0 | 37.0 | 35.8 |
|  | 32.3 | 35.7 | 33.3 | 31.6 | 32.3 | 36.1 | 34.1 | 37.1 |
|  | 34.6 | 33.2 |  | 32.4 | 31.8 | 35.3 | 36.2 | 37.9 |
|  | 35.2 | 33.2 | 33.5 |  | 32.8 | 34.5 | 37.2 | 36.8 |
|  | 33.0 | 36.0 | 33.7 | 31.2 | 32.7 | 34.6 |  |  |
|  | 32.9 | 33.8 | 35.6 | 31.7 | 33.0 | 35.9 | 35.5 | 36.8 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 34.8 | 33.9 |  | 30.6 | 33.4 | 35.8 | 35.0 | 38.8 |
|  | 34.1 | 35.9 | 35.2 | 31.5 | 32.9 | 36.9 | 37.3 | 37.7 |
|  | 33.1 | 35.5 | 34.3 | 31.7 | 32.7 | 35.4 | 34.3 |  |
|  | 33.5 | 32.6 | 34.3 | 31.8 | 31.1 | 36.0 | 36.7 | 35.5 |
|  | 34.9 |  | 33.9 | 33.3 | 32.6 | 35.1 | 34.6 | 39.0 |
|  | 34.4 | 35.8 | 35.4 | 33.0 | 33.1 |  |  |  |
|  | 35.0 | 34.6 | 33.4 | 31.1 | 32.5 | 36.2 | 35.8 | 38.0 |
|  | 33.9 | 35.1 | 35.3 | 31.5 | 31.5 | 35.0 |  | 36.0 |
|  | 35.2 | 34.5 | 33.3 | 31.0 | 30.5 | 35.9 | 36.1 | 38.6 |
|  | 33.2 | 32.6 | 35.2 | 30.6 | 33.7 | 33.8 | 35.2 | 38.2 |
|  | 33.1 | 35.6 |  | 30.4 | 32.3 | 35.7 | 35.8 | 37.5 |
|  | 32.6 | 35.7 | 35.7 | 30.7 | 33.7 | 35.8 | 35.1 | 35.5 |
|  | 33.5 | 36.0 | 33.5 | 31.5 | 31.9 | 36.6 | 35.8 | 37.1 |
|  | 32.4 | 33.2 | 34.8 | 31.6 | 32.2 | 34.3 | 37.3 | 38.7 |
|  | 34.3 | 35.6 | 34.0 | 32.9 | 31.7 | 35.7 | 35.2 | 35.7 |
|  | 32.0 | 34.8 | 33.9 | 32.4 | 32.0 | 35.6 | 35.7 |  |
|  | 34.2 | 33.9 | 35.8 | 32.7 | 31.7 | 36.7 | 37.2 | 36.9 |
|  | 33.0 | 34.5 | 33.8 |  |  | 36.1 | 37.4 |  |
|  | 32.4 | 32.7 | 35.5 | 31.7 | 33.1 | 36.1 | 34.6 | 39.0 |
|  | 34.9 | 36.0 |  | 31.0 | 30.6 | 35.2 |  | 38.1 |
|  | 32.7 | 35.0 | 35.3 | 32.0 | 32.9 | 34.0 | 35.0 | 35.5 |
|  | 34.3 | 33.2 | 35.3 | 31.0 | 31.1 | 37.2 | 36.4 | 38.3 |
|  | 33.3 | 34.9 | 33.3 | 32.4 | 30.6 | 35.9 | 36.2 | 38.4 |
|  | 32.0 | 32.9 | 34.8 | 30.3 | 32.3 | 35.8 | 36.2 |  |
|  | 32.0 | 32.6 |  | 32.7 | 30.5 | 37.1 | 34.3 | 38.1 |
|  | 34.5 | 34.2 | 33.9 |  | 32.1 | 36.9 | 34.3 | 36.1 |
|  | 34.4 | 35.2 | 34.6 | 32.1 | 33.4 | 33.8 | 35.2 | 38.6 |
|  | 35.2 | 34.4 | 35.4 | 33.1 | 32.6 | 34.8 | 37.4 | 36.9 |
|  | 34.3 | 34.8 | 32.7 | 32.0 | 30.6 | 35.7 | 36.2 | 35.4 |
|  | 34.6 | 34.1 | 35.7 | 31.6 | 32.8 |  | 35.9 | 35.7 |
|  | 32.2 | 33.0 | 32.8 | 32.7 | 33.7 | 37.0 | 34.8 | 37.8 |
|  | 34.3 | 34.8 | 34.2 | 32.1 | 31.5 | 35.1 | 37.3 |  |
|  | 34.1 | 35.9 | 33.3 | 33.2 | 31.6 | 37.2 | 36.1 | 35.4 |
|  | 34.7 | 34.3 | 35.5 | 33.3 | 31.8 | 33.9 | 34.8 | 36.4 |
|  | 34.6 | 34.2 | 35.0 | 30.2 | 31.5 | 37.3 | 37.7 | 36.9 |
|  | 32.5 | 34.4 | 33.8 | 31.5 | 31.5 | 35.3 |  | 37.2 |
|  | 33.7 | 32.9 | 33.9 | 30.9 | 33.3 | 35.1 | 36.6 | 36.9 |
|  | 35.1 | 34.7 | 32.8 | 31.5 | 31.8 | 35.9 | 36.2 | 36.8 |
|  | 34.5 | 32.6 | 32.5 | 30.6 | 32.5 | 35.1 | 36.2 | 39.1 |
|  | 33.2 | 35.8 | 33.4 | 31.2 | 32.7 | 36.7 | 34.4 | 37.9 |
|  | 34.6 | 35.2 |  | 31.1 |  | 34.2 | 36.6 |  |
|  | 34.4 | 34.4 | 35.2 | 32.7 | 32.9 | 35.0 | 36.2 | 36.7 |
|  | 34.8 | 33.5 | 33.4 | 30.2 | 31.4 |  | 35.8 | 36.4 |
|  | 34.3 | 36.0 | 35.1 | 31.9 | 32.1 | 36.4 | 35.3 |  |
|  | 34.1 | 33.9 | 35.6 | 30.7 | 31.5 | 33.9 | 37.6 | 38.4 |
|  | 32.6 | 35.6 | 34.9 |  | 31.3 | 34.0 | 36.1 | 38.3 |
|  | 35.2 | 32.8 | 32.8 | 32.6 |  | 34.6 | 37.1 | 35.9 |
|  | 33.3 | 33.2 |  | 31.3 | 32.7 | 35.3 | 35.4 | 36.9 |
|  | 32.2 | 34.4 | 34.9 | 31.9 | 32.2 | 34.0 |  | 38.1 |
|  | 33.4 | 35.6 | 34.3 | 32.1 | 32.7 | 33.8 | 34.3 | 38.6 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 32.7 | 34.0 | 33.7 | 31.0 | 33.5 | 34.0 | 35.1 | 38.3 |
|  | 33.2 | 34.0 | 34.9 |  | 30.5 | 35.9 | 36.9 | 37.9 |
|  | 34.9 | 33.1 | 35.5 | 32.9 | 33.7 | 36.7 | 37.4 |  |
|  | 33.1 | 36.0 |  | 30.5 | 31.5 | 35.1 | 35.9 |  |
|  | 34.7 | 33.9 | 34.3 | 33.3 | 31.8 | 36.9 | 35.9 | 37.8 |
|  | 32.8 | 34.3 | 32.5 | 31.2 | 32.1 | 34.1 | 36.3 | 37.6 |
|  | 32.5 | 32.9 | 34.2 | 30.7 | 33.1 | 37.0 | 37.3 | 37.7 |
|  | 32.6 | 32.9 | 32.8 | 31.4 | 32.8 | 37.1 |  | 39.0 |
|  | 34.1 | 35.1 | 33.8 | 32.5 | 32.6 |  | 37.0 | 36.7 |
|  | 32.0 | 35.8 |  | 31.0 | 32.7 | 35.8 | 35.2 |  |
|  | 35.2 | 35.0 | 33.0 |  | 33.5 | 35.9 | 34.5 | 36.9 |
|  | 32.1 | 35.6 | 34.5 | 33.0 | 32.1 | 35.1 | 35.2 | 36.3 |
|  | 32.9 | 34.4 | 35.4 | 30.8 | 30.9 | 34.3 | 34.5 | 38.9 |
|  | 32.9 | 35.2 | 34.4 | 32.0 | 33.1 | 37.0 | 37.0 | 38.4 |
| **Среднее** | **33.624** | **34.304** | **34.137** | **31.650** | **32.161** | **35.462** | **36.013** | **37.293** |
| **Максимум** | **35.2** | **36.0** | **35.9** | **33.3** | **33.7** | **37.3** | **37.7** | **39.1** |
| **Минимум** | **32.0** | **28.9** | **32.5** | **30.1** | **30.5** | **33.8** | **34.1** | **35.4** |
| **L3** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 43.3 | 41.2 | 41.4 | 42.4 | 45.9 | 40.3 | 52.0 | 47.6 |
|  | 39.9 | 41.7 | 44.8 | 42.8 | 43.9 | 40.2 |  | 45.7 |
|  | 43.3 |  | 42.3 | 43.8 | 45.9 | 41.3 | 48.1 | 45.1 |
|  | 39.6 | 41.9 | 42.3 | 44.6 | 44.9 | 39.4 | 51.1 |  |
|  | 40.1 | 42.1 | 44.5 | 42.1 | 46.4 | 39.7 | 49.8 | 45.7 |
|  | 40.9 |  | 44.0 | 40.9 | 46.8 | 40.4 |  | 45.9 |
|  | 42.0 | 42.8 | 42.7 | 40.8 | 44.4 | 41.4 | 49.8 | 46.1 |
|  | 40.7 | 44.5 | 45.4 | 42.1 | 45.3 | 39.4 | 51.4 | 47.1 |
|  | 42.5 |  | 43.8 | 42.1 | 44.2 | 42.4 | 49.7 |  |
|  | 39.8 | 42.4 | 45.4 | 41.6 | 43.5 | 42.2 | 49.6 | 44.9 |
|  | 42.0 | 41.1 | 42.4 | 43.4 | 44.0 | 42.2 | 49.2 | 47.4 |
|  | 41.8 | 44.3 | 44.4 | 43.1 | 42.9 | 40.5 | 48.4 | 44.4 |
|  | 42.8 |  | 43.5 | 44.0 | 45.9 | 40.4 | 50.5 | 46.4 |
|  | 43.5 | 43.5 | 44.7 | 44.7 | 44.0 | 39.7 | 50.0 | 44.8 |
|  | 43.5 | 44.1 | 42.7 | 40.8 | 45.8 | 38.7 |  | 47.1 |
|  | 40.7 | 42.9 | 45.4 | 43.3 | 45.7 | 40.5 | 48.8 | 43.4 |
|  | 40.0 | 41.3 | 41.6 | 41.3 | 42.8 | 39.7 | 48.3 | 45.1 |
|  | 43.4 | 41.7 | 42.7 | 43.6 | 46.0 | 41.4 | 49.4 |  |
|  | 42.0 | 42.9 | 45.2 | 41.5 | 42.9 | 38.5 | 52.9 | 47.0 |
|  | 39.6 | 41.9 | 44.2 | 42.8 | 46.2 | 40.3 | 49.9 | 44.2 |
|  | 41.9 | 43.4 | 43.2 | 41.1 | 45.2 | 41.5 |  | 45.4 |
|  | 40.3 | 44.6 | 43.2 | 45.0 | 42.7 | 42.3 | 48.5 | 47.2 |
|  | 39.7 | 41.5 | 44.9 | 44.4 | 44.9 | 41.9 | 49.7 | 47.7 |
|  | 42.9 | 42.3 | 42.6 | 42.6 | 44.0 | 41.0 | 52.7 | 47.7 |
|  | 42.3 | 44.5 | 42.2 | 41.1 | 43.4 | 41.2 | 48.7 | 47.2 |
|  | 42.5 | 44.5 | 44.0 | 44.6 | 46.1 | 40.9 | 52.7 | 47.6 |
|  | 43.4 |  | 41.9 | 41.6 | 42.7 | 40.4 | 48.5 | 45.4 |
|  | 40.5 | 44.6 | 45.2 | 42.2 | 45.7 | 38.9 | 52.7 | 46.9 |
|  | 42.6 | 43.7 | 43.8 | 42.7 | 45.9 | 38.8 | 50.3 | 45.4 |
|  | 42.4 | 42.7 | 44.6 | 42.1 | 44.0 | 40.5 | 49.4 | 45.0 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 41.0 | 42.1 | 43.2 | 44.8 | 44.4 | 42.4 | 47.9 | 46.4 |
|  | 43.3 | 42.1 | 44.7 | 41.5 | 44.0 | 39.9 | 50.4 | 44.9 |
|  | 40.7 | 40.7 | 45.1 | 41.9 | 43.2 |  | 52.1 | 47.4 |
|  | 42.9 | 41.3 | 42.7 | 43.2 | 45.9 | 41.0 | 49.9 | 44.8 |
|  | 40.7 | 42.4 | 44.8 | 42.6 | 45.9 | 39.3 | 48.4 | 44.0 |
|  | 41.4 | 41.2 | 41.6 | 42.2 | 46.8 | 41.0 | 49.5 | 44.8 |
|  | 41.3 | 42.0 | 43.1 | 44.6 | 43.6 |  | 48.2 | 46.9 |
|  | 40.4 | 42.8 | 42.8 | 45.0 | 43.7 | 40.1 | 50.4 | 44.9 |
|  | 42.4 | 43.7 | 44.1 | 42.3 | 46.7 | 42.2 | 50.5 | 47.7 |
|  | 41.4 | 44.4 | 44.7 | 43.3 | 43.8 | 41.1 | 48.7 | 45.7 |
|  | 42.2 | 43.8 | 41.9 | 44.3 | 46.7 | 41.9 | 47.9 | 47.2 |
|  | 40.0 | 41.6 | 42.9 | 41.5 | 46.6 | 41.9 | 51.6 | 45.6 |
|  | 40.4 | 41.5 | 43.1 | 44.7 | 44.4 | 42.2 |  | 45.4 |
|  | 43.0 | 41.6 | 44.1 | 42.9 | 44.4 | 41.6 |  | 45.1 |
|  | 39.7 | 43.2 | 41.8 | 43.2 | 45.3 | 40.0 | 49.3 | 47.1 |
|  | 43.4 |  | 44.3 | 43.5 | 46.0 | 42.3 | 52.3 | 44.8 |
|  | 42.6 | 42.7 | 45.2 | 41.5 | 43.8 | 40.2 | 49.0 | 44.6 |
|  | 42.6 | 42.3 | 45.5 | 41.5 | 43.2 | 40.2 |  | 44.0 |
|  | 42.3 | 41.7 | 43.1 | 44.0 | 42.7 | 41.6 | 51.9 | 45.9 |
|  | 41.7 | 42.9 | 45.6 | 42.9 | 42.7 | 38.7 | 52.6 | 46.5 |
|  | 41.1 | 41.9 | 44.3 | 42.7 | 43.8 | 40.7 | 50.6 | 43.9 |
|  | 41.1 | 41.5 | 41.5 | 42.6 | 43.4 | 39.5 | 50.9 |  |
|  | 43.8 | 42.7 | 44.2 | 41.6 | 43.9 | 38.6 | 49.7 | 44.3 |
|  | 40.1 | 41.8 | 42.9 | 43.3 | 45.3 | 42.2 | 50.1 | 45.6 |
|  | 42.0 | 41.9 | 44.8 | 42.0 | 44.5 | 39.6 | 49.3 |  |
|  | 39.7 | 42.1 | 44.6 | 41.9 | 45.2 | 38.6 | 50.4 | 46.5 |
|  | 42.9 | 43.6 | 42.2 | 43.5 | 45.4 | 39.2 | 48.9 | 43.9 |
|  | 42.6 | 44.6 | 44.0 | 41.7 | 43.5 | 39.6 | 48.0 | 46.3 |
|  | 40.7 | 42.0 | 42.8 | 41.0 | 46.3 | 41.5 | 52.8 | 44.6 |
|  | 43.2 | 40.9 | 44.6 | 40.8 | 42.7 | 40.3 |  | 47.6 |
|  | 41.0 | 42.9 | 44.2 | 43.9 | 45.9 | 39.2 | 51.0 | 47.3 |
|  | 40.5 | 41.9 | 42.0 | 42.7 | 43.6 | 39.7 | 49.0 | 46.0 |
|  | 42.3 | 44.6 | 45.6 | 42.6 | 46.4 | 40.9 | 52.6 | 43.7 |
|  | 41.8 | 44.8 | 41.6 | 42.7 | 45.9 | 41.2 | 51.7 |  |
|  | 40.2 |  | 44.7 | 44.5 | 43.9 | 41.0 | 47.9 | 46.2 |
|  | 43.2 | 43.0 | 41.7 | 43.1 | 43.7 | 42.3 | 52.4 | 43.7 |
|  | 43.4 | 42.3 | 45.6 | 41.7 | 46.6 | 41.4 | 51.6 | 45.6 |
|  | 43.1 | 43.8 | 42.3 | 42.8 | 45.7 | 41.9 |  | 45.8 |
|  | 43.3 | 43.0 | 44.9 | 44.7 | 43.8 | 39.5 | 50.5 | 46.3 |
|  | 41.3 |  | 42.5 | 41.6 | 46.7 | 39.8 | 50.9 |  |
|  | 41.1 | 44.6 | 42.4 | 40.8 | 42.6 | 40.3 | 48.4 | 47.7 |
|  | 42.8 | 44.3 | 43.0 | 42.9 | 46.0 | 40.6 | 49.0 | 45.2 |
|  | 40.3 | 44.3 | 42.0 | 43.6 | 44.1 | 39.5 | 51.3 | 47.7 |
|  | 42.1 | 40.7 | 43.5 | 41.7 | 43.8 | 42.3 |  | 46.1 |
|  | 43.7 | 41.7 | 41.4 | 41.8 | 46.8 | 40.8 | 52.7 | 45.8 |
|  | 40.1 | 44.5 | 44.5 | 41.1 | 43.4 | 41.6 | 50.6 | 43.4 |
|  | 39.9 | 44.5 | 43.7 | 45.0 | 44.1 |  |  | 46.0 |
|  | 40.5 | 41.3 | 42.3 | 41.8 | 44.7 | 39.1 | 49.8 | 43.7 |
|  | 41.3 | 43.8 | 41.7 | 44.2 | 46.1 | 39.4 | 50.4 | 46.9 |
|  | 41.3 | 43.3 | 42.8 | 43.6 | 45.1 | 40.1 | 52.8 | 43.8 |

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|  | 42.1 | 43.5 | 41.3 | 42.0 | 43.1 | 41.2 | 50.2 |  |
|  | 41.4 | 41.3 | 41.9 | 41.8 | 44.6 | 38.5 | 49.3 | 43.7 |
|  | 43.1 | 43.6 | 42.6 | 42.7 | 43.8 | 40.7 | 48.7 | 44.7 |
|  | 42.9 | 41.5 | 43.0 | 43.4 | 43.9 | 41.9 | 48.2 | 46.2 |
|  | 40.8 | 41.6 | 44.6 | 44.2 | 46.9 | 39.3 | 52.2 | 45.0 |
|  | 40.8 | 43.4 | 43.5 | 42.5 | 45.6 | 40.2 | 48.8 | 43.9 |
|  | 40.5 |  | 44.9 | 43.6 | 43.7 | 41.7 | 48.7 | 46.3 |
|  | 43.7 | 43.1 | 45.6 | 45.0 | 43.7 | 40.8 | 51.2 | 44.8 |
|  | 40.9 | 43.0 | 44.6 | 44.0 | 45.2 | 40.1 | 51.2 | 45.6 |
|  | 40.1 | 40.7 | 42.3 | 44.7 | 43.7 | 40.8 | 49.6 | 47.1 |
|  | 42.1 | 44.8 | 44.4 | 44.7 | 44.4 | 41.6 | 49.7 | 47.4 |
|  | 42.1 | 44.9 | 42.9 | 41.5 | 46.7 | 38.5 |  | 45.6 |
|  | 39.9 | 41.4 | 44.1 | 45.0 | 42.7 | 41.2 | 50.2 | 46.9 |
|  | 42.1 |  | 43.5 | 44.7 | 45.6 | 42.0 | 51.4 | 47.8 |
|  | 43.7 | 40.9 | 43.1 | 44.0 | 44.1 | 39.0 | 50.5 | 44.4 |
|  | 40.7 | 43.0 | 45.0 | 40.9 | 46.4 | 42.0 | 48.7 | 43.9 |
|  | 40.6 | 42.9 | 43.3 | 42.0 | 44.7 | 41.2 | 52.0 | 45.8 |
|  | 42.6 | 42.7 | 42.8 | 41.8 | 43.1 | 42.0 | 48.2 | 47.6 |
|  | 41.4 | 40.7 | 41.7 | 40.9 | 45.1 | 40.2 | 51.9 | 45.2 |
|  | 43.2 | 43.4 | 44.3 | 42.5 | 46.6 | 39.9 | 50.5 | 47.7 |
|  | 42.3 | 41.5 | 42.0 | 41.0 | 42.6 | 38.6 | 49.4 | 47.1 |
|  | 39.8 | 44.4 |  | 40.9 | 46.6 | 39.8 | 50.1 |  |
|  | 40.9 | 42.4 |  | 44.0 | 46.9 | 41.9 | 48.9 | 44.3 |
|  | 39.6 | 44.2 | 44.0 | 40.8 | 43.0 |  | 52.3 | 46.9 |
|  | 43.6 | 42.5 | 44.7 | 42.1 | 43.9 | 40.9 | 52.8 | 46.2 |
|  | 39.7 | 42.4 | 43.1 | 42.2 |  | 41.8 |  | 43.4 |
|  | 40.9 | 44.8 | 42.7 |  | 43.1 | 42.2 | 52.5 | 43.9 |
|  | 39.7 | 41.2 | 41.8 | 42.6 | 45.1 | 39.5 | 49.8 | 46.3 |
|  | 42.2 |  | 43.6 | 41.0 | 46.8 | 41.2 | 51.4 | 46.5 |
|  | 43.2 | 43.8 | 43.9 | 43.3 | 44.1 | 41.4 | 52.4 | 47.0 |
|  | 40.0 | 41.2 | 45.0 | 43.9 | 42.9 | 40.1 | 52.9 |  |
|  | 42.8 | 44.0 |  | 44.2 | 44.5 | 40.1 |  | 46.0 |
|  | 41.3 | 43.4 | 44.9 | 41.2 | 42.6 | 39.6 | 51.6 | 44.1 |
|  | 41.8 | 44.0 | 43.9 | 42.5 | 43.4 | 42.4 | 50.4 | 43.9 |
|  | 40.0 | 43.1 | 43.1 | 43.9 | 42.7 | 39.4 | 52.8 | 46.3 |
|  | 43.3 |  | 43.9 | 41.7 |  | 38.7 | 48.7 | 45.5 |
|  | 41.3 |  | 43.7 | 43.7 | 46.2 | 40.3 | 52.6 | 43.5 |
|  | 41.4 | 44.6 | 42.1 |  | 46.8 | 38.7 | 49.0 | 44.1 |
|  | 41.7 | 42.9 | 45.6 | 44.3 | 43.7 | 39.5 | 48.1 | 47.3 |
|  | 41.6 | 42.6 | 41.5 | 41.6 | 45.4 | 39.7 | 51.7 | 45.6 |
|  | 42.1 | 43.0 | 45.5 | 44.8 | 44.1 | 40.9 |  | 45.7 |
|  | 43.3 | 43.7 |  | 42.3 | 44.1 | 41.9 | 48.0 | 46.4 |
|  | 41.4 |  | 42.3 | 42.4 | 43.8 | 38.9 | 49.8 |  |
|  | 41.7 | 44.4 | 43.7 | 42.5 | 43.5 | 39.1 | 48.0 | 47.1 |
|  | 41.5 | 43.4 | 42.5 | 44.1 | 43.6 |  |  | 46.4 |
|  | 40.4 | 44.5 | 43.8 | 42.6 | 44.4 | 39.9 | 48.5 | 45.8 |
|  | 40.8 | 42.0 | 45.2 | 41.1 | 43.8 | 39.7 | 48.2 | 43.9 |
|  | 39.7 | 40.8 | 41.5 | 40.8 | 45.2 | 38.6 | 51.4 | 44.4 |
| **Среднее** | **41.607** | **42.799** | **43.499** | **42.737** | **44.640** | **40.500** | **50.249** | **45.706** |
| **Максимум** | **43.8** | **44.9** | **45.6** | **45.0** | **46.9** | **42.4** | **52.9** | **47.8** |

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| **Минимум** | **39.6** | **40.7** | **41.3** | **40.8** | **42.6** | **38.5** | **47.9** | **43.4** |
| **L4** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 30.9 | 32.5 | 41.7 | 39.5 | 36.5 | 35.0 | 46.6 | 44.1 |
|  | 32.1 | 33.0 | 44.6 | 37.4 | 36.3 | 34.0 | 47.4 | 42.3 |
|  | 31.2 | 34.6 | 42.8 | 37.5 | 37.9 | 34.1 | 46.2 | 43.6 |
|  | 31.1 | 34.2 | 44.5 | 38.5 | 38.9 | 33.3 | 46.8 |  |
|  | 33.6 | 32.6 | 43.2 | 39.0 | 37.5 | 33.4 | 44.7 | 45.7 |
|  | 30.8 | 32.6 | 44.1 | 38.7 | 36.8 | 34.6 | 44.0 | 45.0 |
|  | 33.7 | 34.7 | 44.1 |  | 37.3 | 34.7 | 46.0 | 45.2 |
|  | 33.0 | 33.8 | 42.9 | 37.1 | 36.8 | 33.5 | 45.5 | 45.5 |
|  | 31.6 | 32.8 | 41.5 | 36.7 | 36.2 | 35.0 | 48.2 |  |
|  | 31.9 | 34.2 | 40.7 | 40.1 | 37.9 | 33.6 | 45.1 | 45.0 |
|  | 32.6 | 33.0 | 42.8 | 38.0 | 37.2 | 34.9 | 44.1 | 46.0 |
|  | 33.4 | 32.3 | 40.5 | 39.7 | 36.5 | 33.4 | 47.5 | 45.2 |
|  | 33.8 | 32.2 | 43.5 | 37.8 | 36.0 | 33.8 | 44.3 | 44.9 |
|  | 32.0 | 33.5 | 40.8 | 38.3 | 35.9 | 33.3 | 44.2 | 46.5 |
|  | 30.7 | 32.7 | 43.6 | 38.6 | 39.1 | 34.1 | 44.0 | 42.5 |
|  | 32.5 | 33.4 | 43.1 | 39.1 | 38.5 | 34.1 | 44.7 | 46.5 |
|  | 31.2 | 32.1 | 41.7 | 39.0 | 38.1 | 33.3 | 44.5 | 42.2 |
|  | 31.1 | 33.3 | 43.7 | 37.6 | 36.7 | 34.4 | 46.9 |  |
|  | 30.8 | 34.3 | 40.9 | 40.1 | 35.9 | 33.5 | 45.4 | 44.2 |
|  | 32.1 | 34.4 | 40.7 | 40.3 | 36.9 | 35.0 | 47.0 | 44.3 |
|  | 33.2 | 34.3 | 44.6 | 40.3 | 38.8 | 33.4 | 47.7 | 46.6 |
|  | 32.2 | 32.7 | 43.9 | 38.1 | 35.4 | 34.9 | 47.3 | 44.2 |
|  | 33.0 | 34.0 | 42.5 | 38.4 | 36.7 | 33.1 | 48.1 |  |
|  | 32.4 | 32.2 | 43.6 | 37.3 | 37.1 | 34.2 | 45.7 | 46.6 |
|  | 32.3 | 32.4 | 41.8 | 39.1 | 35.6 | 34.1 | 45.8 | 43.7 |
|  | 31.3 | 33.4 | 41.6 | 38.7 | 36.4 | 33.7 | 46.7 | 45.7 |
|  | 32.4 | 34.8 | 42.3 | 38.4 | 37.0 | 34.8 | 45.5 | 44.5 |
|  | 31.8 | 33.2 | 44.3 | 38.4 | 38.4 | 33.4 | 43.7 | 44.9 |
|  | 33.8 | 33.8 | 42.3 | 39.8 | 38.7 | 33.6 | 45.0 | 45.0 |
|  | 33.5 | 34.4 | 44.6 | 38.6 | 39.0 | 33.6 | 44.7 | 44.4 |
|  | 32.1 | 34.5 | 41.8 | 39.7 | 35.9 | 34.0 | 44.7 | 43.6 |
|  | 31.9 | 32.7 | 42.7 | 37.8 | 39.1 | 33.1 | 46.6 | 46.6 |
|  | 31.3 | 32.8 | 40.9 | 39.4 |  |  | 47.9 | 42.3 |
|  | 33.5 | 35.0 | 43.0 | 39.3 | 38.7 | 34.6 | 46.1 | 44.0 |
|  | 32.1 | 35.1 | 43.8 | 37.5 | 37.9 | 34.9 | 45.3 | 43.7 |
|  | 33.8 | 32.9 | 41.6 | 39.6 | 37.4 | 34.9 | 46.9 | 45.0 |
|  | 31.3 | 34.2 | 41.7 | 40.2 | 35.8 |  | 43.9 | 42.4 |
|  | 32.2 | 32.5 | 41.0 | 37.7 | 36.2 | 33.1 | 43.8 | 44.0 |
|  | 32.2 | 32.2 | 43.3 | 36.8 | 37.3 | 34.9 | 44.0 | 44.3 |
|  | 33.6 | 33.3 | 43.7 | 37.5 | 36.3 | 33.5 | 46.0 | 46.5 |
|  | 33.8 | 32.4 | 43.2 | 38.2 |  | 33.3 | 45.2 | 42.5 |
|  | 31.4 | 33.9 | 44.7 | 37.6 | 38.3 | 34.3 | 47.1 | 45.6 |
|  | 33.1 | 33.9 | 40.8 | 38.7 | 37.9 | 34.4 | 47.6 | 46.0 |
|  | 33.2 | 32.9 | 44.6 | 36.9 | 37.0 | 33.5 | 46.9 | 45.5 |
|  | 33.6 | 35.1 | 42.2 | 40.1 | 35.5 | 33.8 | 46.0 | 44.1 |
|  | 30.7 |  | 43.1 | 37.3 | 36.1 | 33.1 | 45.4 |  |

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|  | 31.9 | 35.1 | 43.2 | 38.6 | 37.0 |  | 45.1 | 43.8 |
|  | 33.8 | 32.4 | 43.1 | 39.4 | 36.3 | 33.5 | 47.9 | 42.2 |
|  | 33.6 | 32.4 | 44.1 | 39.4 | 37.5 | 33.3 | 47.6 | 45.7 |
|  | 33.4 | 32.6 | 43.3 | 37.1 | 38.7 | 34.9 | 45.7 | 46.5 |
|  | 32.4 | 32.2 | 44.1 | 40.0 | 36.7 | 34.3 | 45.1 | 45.5 |
|  | 31.1 | 34.4 | 41.0 | 39.3 | 37.8 | 34.8 | 48.1 |  |
|  | 33.0 | 33.4 | 42.0 | 37.9 | 38.3 |  | 47.0 | 45.3 |
|  | 31.5 | 33.7 | 40.9 | 40.0 | 36.2 | 34.1 | 45.2 | 42.6 |
|  | 31.9 | 35.2 | 43.2 | 39.2 | 36.9 | 33.9 | 44.7 |  |
|  | 32.0 | 33.9 | 43.1 | 37.5 | 38.1 | 34.7 | 46.7 | 43.3 |
|  | 31.8 | 32.5 | 41.5 | 39.6 | 35.7 | 34.3 | 44.0 | 43.0 |
|  | 30.7 | 34.6 | 40.6 | 40.3 | 38.6 | 33.8 | 44.2 | 45.9 |
|  | 33.7 | 34.5 | 42.4 |  | 38.8 | 33.6 | 46.9 | 43.3 |
|  | 32.3 | 34.1 | 42.3 | 38.8 | 38.2 | 33.3 | 43.7 | 44.7 |
|  | 32.0 | 33.0 | 41.0 | 36.5 | 36.1 | 33.3 | 46.1 | 45.1 |
|  | 33.7 | 33.1 | 44.5 | 37.7 | 35.7 | 33.6 | 43.8 | 44.8 |
|  | 33.7 | 33.1 | 44.5 | 39.8 | 38.3 | 33.3 | 45.5 | 45.1 |
|  | 31.0 | 34.1 | 41.0 | 37.5 | 37.3 | 34.4 | 45.6 |  |
|  | 33.8 | 33.9 | 42.0 | 38.2 |  |  | 46.0 | 46.3 |
|  | 32.5 | 32.3 | 41.2 | 37.5 | 37.6 | 34.2 | 46.1 | 45.0 |
|  | 31.8 | 34.7 | 42.9 | 38.4 | 37.5 | 33.5 | 44.7 | 44.1 |
|  | 31.7 | 32.7 | 43.1 | 39.3 | 38.5 | 34.7 | 47.9 | 45.5 |
|  | 30.9 | 32.7 | 40.7 | 38.9 | 36.8 | 33.1 | 46.7 | 44.4 |
|  | 33.7 |  | 43.9 | 39.7 | 38.1 | 35.0 | 47.7 |  |
|  | 33.7 | 32.7 | 44.3 | 36.9 | 35.4 | 34.3 | 46.9 | 46.5 |
|  | 31.5 | 32.9 | 42.0 | 38.8 |  | 34.7 | 46.2 | 44.5 |
|  | 33.6 | 35.4 | 43.4 | 40.1 | 38.0 | 34.7 | 47.3 | 42.9 |
|  | 31.0 | 33.8 | 43.8 | 36.5 | 36.4 | 34.2 | 47.3 | 45.4 |
|  | 32.0 | 32.2 | 40.6 | 39.1 | 37.8 | 34.6 | 45.5 | 42.9 |
|  | 31.5 | 34.6 | 44.6 | 37.1 | 36.3 | 33.5 | 43.8 | 45.5 |
|  | 31.9 | 32.6 | 44.6 | 37.7 | 35.7 |  | 48.3 | 45.3 |
|  | 31.5 | 34.4 | 41.2 | 37.6 | 38.0 | 34.0 | 44.9 | 44.3 |
|  | 33.9 | 34.0 | 42.3 | 39.2 | 35.4 | 34.4 | 44.7 | 44.0 |
|  | 33.0 | 34.4 | 43.9 | 38.6 | 35.4 | 34.4 | 44.1 | 46.6 |
|  | 31.9 | 34.7 | 42.7 | 38.0 | 37.1 | 33.2 | 44.8 |  |
|  | 33.7 | 32.9 | 42.4 | 36.8 | 38.4 | 34.6 | 46.3 | 43.8 |
|  | 32.4 | 34.3 | 42.5 | 37.6 | 37.3 | 33.6 | 44.1 | 44.9 |
|  | 32.2 | 33.1 | 44.3 | 37.3 | 36.5 | 33.8 | 44.2 | 42.2 |
|  | 33.1 | 32.4 | 42.4 | 39.1 | 38.9 | 33.2 | 45.1 | 43.7 |
|  | 31.2 | 33.1 | 44.1 | 39.6 | 37.9 | 33.9 | 47.9 | 43.0 |
|  | 33.0 | 33.5 | 43.2 | 40.1 | 35.3 | 34.2 | 44.4 | 46.3 |
|  | 33.6 | 34.4 | 42.2 | 39.0 | 36.2 | 34.0 | 46.4 | 45.8 |
|  | 31.6 | 33.2 | 44.7 |  | 39.1 | 34.2 | 46.6 | 43.4 |
|  | 33.4 | 32.1 | 44.6 | 39.9 | 36.8 | 33.1 | 45.9 | 45.7 |
|  | 31.2 | 33.0 | 40.9 | 37.6 | 37.6 | 34.9 | 46.1 | 45.8 |
|  | 31.1 | 33.3 | 41.1 | 37.1 | 38.0 | 35.1 | 47.9 | 46.2 |
|  | 32.4 | 34.1 | 43.4 | 38.1 | 36.7 |  | 44.6 | 42.4 |
|  | 33.8 | 33.1 | 44.7 | 39.1 | 35.9 | 34.4 | 48.2 | 45.1 |
|  | 33.8 | 33.5 | 41.9 | 38.0 | 38.5 | 34.3 | 43.9 | 45.2 |
|  | 33.4 | 33.7 | 42.6 |  | 38.6 | 34.0 | 46.5 | 43.1 |

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|  | 31.8 | 32.5 | 41.5 | 38.0 | 37.9 | 34.5 | 48.3 | 46.3 |
|  | 33.8 | 33.9 | 40.8 | 36.5 | 38.1 | 34.8 | 45.0 | 42.4 |
|  | 30.8 | 34.0 | 40.6 | 37.8 | 35.4 | 34.0 | 47.9 | 42.4 |
|  | 32.9 | 35.3 | 42.4 | 38.9 | 39.0 | 34.6 | 47.2 | 43.5 |
|  | 32.9 | 35.3 | 44.7 | 37.5 | 37.7 | 33.0 | 45.5 | 44.1 |
|  | 32.4 | 34.5 | 44.3 | 38.9 | 35.8 | 33.9 | 46.3 | 44.1 |
|  | 32.1 | 32.4 | 41.9 | 37.0 | 38.3 | 33.2 | 47.5 | 45.9 |
|  | 32.1 | 35.2 | 43.1 | 40.0 | 35.9 |  | 45.5 |  |
|  | 32.2 | 35.2 | 42.2 | 39.6 | 37.8 | 34.7 | 45.2 | 43.5 |
|  | 31.4 | 35.3 | 42.3 | 40.3 |  | 34.7 | 48.2 | 42.7 |
|  | 33.3 | 34.6 | 43.5 |  | 38.0 | 34.5 | 45.4 | 45.7 |
|  | 33.3 | 35.2 | 41.0 | 40.1 | 37.4 | 34.1 | 44.4 | 42.8 |
|  | 32.7 | 33.1 | 42.3 | 38.3 | 37.1 | 33.8 | 46.9 | 43.3 |
|  | 31.1 | 34.4 | 43.5 | 36.5 | 35.9 | 33.7 | 47.7 | 42.7 |
|  | 32.6 | 33.9 | 42.9 | 39.3 | 35.5 | 34.8 | 48.2 | 43.1 |
|  | 33.6 | 33.9 | 41.1 | 38.2 | 38.2 | 33.2 |  | 43.2 |
|  | 32.0 | 35.1 | 43.3 | 36.9 | 38.3 | 34.4 | 45.3 | 42.6 |
|  | 32.7 | 35.2 | 41.9 | 39.2 | 36.3 | 33.3 | 45.9 | 43.3 |
|  | 33.4 | 32.6 | 40.7 | 36.7 | 38.5 | 33.8 | 45.8 | 42.3 |
|  | 31.0 | 32.2 | 42.1 | 39.0 |  | 34.1 | 46.9 |  |
|  | 31.5 | 32.7 |  | 38.2 | 37.0 | 33.9 | 46.7 | 43.2 |
|  | 32.4 | 33.5 | 40.6 |  | 36.9 | 34.1 | 47.1 | 44.3 |
|  | 33.9 | 33.0 | 42.3 | 36.6 | 36.7 | 34.3 | 45.8 | 43.1 |
|  | 31.9 | 34.0 | 41.9 | 39.0 | 36.3 | 34.8 | 48.3 | 43.7 |
|  | 32.3 | 32.4 | 43.9 | 38.1 | 38.7 | 34.9 |  | 43.2 |
|  | 31.4 | 33.8 | 41.7 | 37.4 | 38.8 | 35.0 | 47.1 | 45.7 |
|  | 31.5 | 35.4 | 42.9 | 39.0 | 38.3 | 34.4 | 46.1 |  |
|  | 33.7 | 32.8 | 44.2 | 39.0 | 35.5 | 34.0 | 44.0 |  |
|  | 32.8 | 33.3 | 42.5 | 37.0 | 35.5 |  |  | 43.0 |
|  | 31.3 | 33.6 | 43.6 | 38.6 | 37.0 | 34.7 | 44.1 | 46.3 |
|  | 31.9 | 34.8 | 40.6 | 40.3 | 38.2 | 33.1 | 47.4 | 45.3 |
|  | 33.8 | 32.9 | 43.0 | 36.8 | 37.7 | 34.7 | 47.7 | 43.6 |
| **Среднее** | **32.383** | **33.586** | **42.645** | **38.458** | **37.213** | **34.050** | **45.977** | **44.400** |
| **Максимум** | **33.9** | **35.4** | **44.7** | **40.3** | **39.1** | **35.1** | **48.3** | **46.6** |
| **Минимум** | **30.7** | **32.1** | **40.5** | **36.5** | **35.3** | **33.0** | **43.7** | **42.2** |

**Таблица 19.** Данные по рисунку 5. Прирост длины волосовидных корней, переживших долговременное хранение в условиях дефицита сахарозы (1.875г/л).

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| **ДИКИЙ ТИП** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 22.2 | 19.6 | 21.5 | 21.1 | 22.2 |  |  |  |
|  | 23.2 | 19.9 | 20.5 | 21.5 |  |  |  |  |
|  | 22.9 |  | 22.3 | 20.1 | 22.3 |  |  |  |
|  | 22.6 | 19.8 | 21.9 | 21.7 |  |  |  |  |
|  | 22.3 | 19.7 | 20.5 |  | 21.7 |  |  |  |
|  | 23.3 | 20.7 | 21.3 | 21.5 |  |  |  |  |
|  | 22.3 | 20.0 | 22.7 | 20.5 |  |  |  |  |
|  | 23.0 |  | 21.6 | 20.5 | 23.0 |  |  |  |

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|  | 23.6 | 19.7 | 21.1 | 20.2 |  |  |  |  |
|  | 22.8 | 20.4 | 21.7 | 21.1 | 21.3 |  |  |  |
|  | 22.5 | 21.2 | 21.8 | 19.7 | 21.2 |  |  |  |
|  | 22.9 | 20.4 | 22.0 | 21.1 |  |  |  |  |
|  | 23.7 | 20.6 | 20.6 |  | 21.4 |  |  |  |
|  | 22.9 | 19.3 |  | 21.2 | 22.0 |  |  |  |
|  | 23.2 | 19.9 | 21.3 | 20.6 |  |  |  |  |
|  | 21.8 | 19.7 | 22.5 | 21.5 | 21.5 |  |  |  |
|  | 22.8 | 20.5 | 20.9 | 21.6 | 22.6 |  |  |  |
|  |  | 20.2 | 20.8 |  |  |  |  |  |
|  | 22.2 | 20.4 | 21.3 | 21.3 | 23.2 |  |  |  |
|  | 22.7 | 19.4 | 21.7 | 20.8 | 21.0 |  |  |  |
|  | 22.9 | 21.0 | 20.7 | 19.8 |  |  |  |  |
|  | 21.9 | 19.8 | 21.7 | 21.3 | 21.1 |  |  |  |
|  | 22.6 | 19.3 | 21.3 | 21.5 |  |  |  |  |
|  | 22.1 | 20.3 | 20.9 | 21.4 | 22.9 |  |  |  |
|  | 22.2 |  | 20.8 | 20.3 | 22.9 |  |  |  |
|  | 21.9 | 20.6 | 22.3 | 20.4 | 21.5 |  |  |  |
|  | 23.7 | 20.4 | 21.6 |  |  |  |  |  |
|  | 22.0 | 19.5 | 22.7 | 21.2 | 22.0 |  |  |  |
|  | 22.4 | 20.1 | 21.2 | 19.9 | 21.2 |  |  |  |
|  | 22.0 |  | 20.9 | 20.5 | 21.5 |  |  |  |
|  | 23.7 | 20.3 | 21.1 | 21.6 | 23.0 |  |  |  |
|  | 22.5 | 19.6 | 20.7 |  |  |  |  |  |
|  | 23.2 | 20.2 | 21.9 | 20.2 | 22.2 |  |  |  |
|  | 23.3 |  | 20.6 | 21.0 |  |  |  |  |
|  | 22.3 | 20.6 | 22.5 | 21.2 | 23.2 |  |  |  |
|  | 21.8 | 19.6 | 21.6 | 19.9 |  |  |  |  |
|  | 22.7 | 20.0 | 22.0 |  | 22.8 |  |  |  |
|  | 22.8 | 19.9 | 20.7 | 20.8 | 22.3 |  |  |  |
|  | 22.2 | 19.3 |  | 20.4 |  |  |  |  |
|  | 22.3 | 19.6 | 20.9 | 19.8 | 22.5 |  |  |  |
|  | 22.1 | 20.5 | 20.6 | 20.3 |  |  |  |  |
|  | 23.5 |  | 21.4 | 20.8 | 23.0 |  |  |  |
|  | 22.2 | 20.5 | 22.3 | 20.3 |  |  |  |  |
|  | 22.2 | 19.8 | 21.9 | 21.2 |  |  |  |  |
|  | 22.2 | 21.0 |  | 20.1 |  |  |  |  |
|  | 21.6 |  | 21.8 | 21.8 | 21.4 |  |  |  |
|  | 22.2 | 20.3 | 21.4 |  | 22.8 |  |  |  |
|  | 22.2 | 19.9 | 22.5 | 21.1 |  |  |  |  |
|  | 22.3 | 20.4 | 22.3 | 21.6 | 22.3 |  |  |  |
|  | 23.7 | 21.1 | 22.2 | 19.7 | 21.5 |  |  |  |
|  | 21.9 |  | 21.2 | 21.8 |  |  |  |  |
|  | 23.0 | 20.1 | 21.0 | 21.0 | 21.2 |  |  |  |
|  | 23.0 | 19.9 | 20.8 |  |  |  |  |  |
|  | 22.4 | 19.3 | 21.6 | 20.2 | 21.5 |  |  |  |
|  | 23.6 |  | 21.5 | 19.8 | 23.2 |  |  |  |
|  | 22.5 | 20.2 | 21.3 | 21.1 |  |  |  |  |
|  | 22.8 | 19.2 | 21.4 | 21.7 | 22.8 |  |  |  |
|  | 23.3 | 21.0 | 22.0 | 21.4 | 23.1 |  |  |  |

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|  | 22.5 | 21.1 | 20.4 |  |  |  |  |  |
|  | 22.6 | 20.0 | 22.5 | 20.9 |  |  |  |  |
|  | 21.6 | 19.2 | 21.4 | 20.5 |  |  |  |  |
|  | 21.8 | 20.2 |  | 20.9 |  |  |  |  |
|  | 21.8 | 19.6 | 21.6 | 21.1 | 22.2 |  |  |  |
|  | 22.7 | 19.8 | 21.7 |  | 22.0 |  |  |  |
|  | 21.9 |  |  | 20.1 |  |  |  |  |
|  | 22.5 | 19.2 | 21.5 | 19.8 | 22.5 |  |  |  |
|  | 22.4 | 19.9 | 20.5 | 21.0 | 21.6 |  |  |  |
|  | 22.4 | 21.1 | 20.5 | 20.0 |  |  |  |  |
|  | 23.2 | 21.0 | 22.5 | 21.5 |  |  |  |  |
|  | 23.8 | 19.7 | 21.7 |  |  |  |  |  |
|  | 23.5 | 19.8 |  | 21.1 | 21.3 |  |  |  |
|  | 21.7 | 19.4 | 21.4 | 20.4 | 22.1 |  |  |  |
|  | 22.6 |  | 22.6 |  | 22.5 |  |  |  |
|  | 23.3 | 21.0 | 21.1 | 20.5 |  |  |  |  |
|  | 23.3 | 20.1 |  | 21.6 | 22.0 |  |  |  |
|  | 21.9 | 21.0 |  | 21.6 | 22.6 |  |  |  |
|  | 21.7 | 20.6 | 21.3 | 21.0 | 22.3 |  |  |  |
|  | 23.1 | 21.0 | 21.2 | 21.8 |  |  |  |  |
|  | 21.9 | 20.0 | 21.4 |  | 21.5 |  |  |  |
|  | 23.2 | 19.9 | 22.0 | 21.6 | 21.3 |  |  |  |
|  | 23.7 | 20.3 | 20.9 | 20.5 | 22.7 |  |  |  |
|  | 23.3 | 20.7 | 20.7 | 20.5 |  |  |  |  |
|  | 23.8 | 19.6 | 22.4 | 21.7 | 21.6 |  |  |  |
|  | 23.5 | 20.5 | 20.5 | 20.1 | 21.6 |  |  |  |
|  | 23.4 | 20.3 | 22.6 | 21.0 | 21.3 |  |  |  |
|  | 23.1 | 19.4 | 22.3 | 20.3 | 21.5 |  |  |  |
|  | 23.8 | 20.2 | 22.1 |  | 21.3 |  |  |  |
|  | 22.4 | 19.9 | 22.6 | 21.1 | 22.6 |  |  |  |
|  | 23.2 | 19.9 | 20.9 | 21.5 | 23.0 |  |  |  |
|  | 23.4 | 21.2 | 22.0 | 20.6 |  |  |  |  |
|  | 22.4 | 20.6 |  | 21.6 | 22.3 |  |  |  |
|  | 21.8 | 20.6 | 22.4 | 20.5 |  |  |  |  |
|  | 22.5 | 19.6 | 21.1 | 21.3 | 22.9 |  |  |  |
|  | 23.3 | 21.2 | 21.2 |  | 21.3 |  |  |  |
|  | 22.8 | 19.7 | 22.6 | 21.5 | 21.1 |  |  |  |
|  | 23.8 |  | 21.9 | 21.3 |  |  |  |  |
|  | 22.1 | 20.6 |  | 20.7 | 22.0 |  |  |  |
|  | 22.2 | 20.5 | 20.5 | 20.2 | 17.4 |  |  |  |
|  | 21.7 | 20.4 | 22.2 |  | 21.3 |  |  |  |
|  | 22.5 | 20.3 | 20.9 | 21.6 |  |  |  |  |
|  | 22.6 | 19.8 | 21.8 | 21.5 | 21.6 |  |  |  |
|  | 22.1 | 19.4 | 20.6 | 20.2 | 21.1 |  |  |  |
|  | 23.8 | 19.3 | 21.6 | 20.5 | 22.8 |  |  |  |
|  | 22.9 | 19.7 | 22.6 | 21.0 | 21.7 |  |  |  |
|  | 23.6 | 19.9 | 22.3 | 21.6 | 21.6 |  |  |  |
|  | 23.5 | 20.4 | 22.3 | 21.0 | 21.7 |  |  |  |
|  | 22.6 | 19.4 | 21.3 |  | 31.7 |  |  |  |
|  | 22.3 | 21.0 | 22.3 | 20.8 |  |  |  |  |

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|  | 23.6 | 19.3 | 20.6 | 19.7 |  |  |  |  |
|  | 23.2 | 20.3 | 21.1 | 20.8 | 21.5 | 1.5 |  |  |
|  | 23.1 | 21.0 | 20.9 | 20.1 | 26.7 |  |  |  |
|  | 22.6 | 20.5 | 22.3 |  |  |  |  |  |
|  | 22.0 | 21.0 | 21.9 | 21.5 | 23.0 |  |  |  |
|  | 23.4 | 20.3 | 20.5 | 20.4 | 22.2 |  |  |  |
|  | 22.5 | 21.2 | 20.9 | 21.4 | 22.0 |  |  |  |
|  | 23.8 | 20.7 | 21.1 | 20.2 | 23.2 |  |  |  |
|  | 22.0 | 21.0 | 20.9 | 21.0 |  |  |  |  |
|  | 22.9 |  | 21.5 | 20.9 |  |  |  |  |
|  | 22.4 | 19.7 | 22.6 | 20.9 | 21.4 |  |  |  |
|  | 22.9 | 20.4 |  | 21.5 | 24.5 |  |  |  |
|  | 23.0 | 20.8 | 22.2 | 21.3 | 22.1 |  |  |  |
|  | 22.9 | 20.7 | 21.7 | 20.4 | 21.3 |  |  |  |
|  | 22.7 | 20.7 |  | 21.4 | 21.4 |  |  |  |
|  | 22.6 | 19.3 | 20.5 | 20.7 |  |  |  |  |
|  | 21.9 | 21.1 | 21.7 | 19.8 | 18.3 |  |  |  |
|  | 22.4 | 19.7 | 22.0 | 21.2 |  |  |  |  |
|  | 21.6 | 20.8 | 21.8 | 21.4 | 22.0 |  |  |  |
|  | 23.4 | 20.2 | 20.5 | 21.1 | 22.2 |  |  |  |
| **Среднее** | **22.692** | **20.180** | **21.510** | **20.857** | **22.135** |  |  |  |
| **Максимум** | **23.8** | **21.2** | **22.7** | **21.8** | **31.7** |  |  |  |
| **Минимум** | **21.6** | **19.2** | **20.4** | **19.7** | **17.4** |  |  |  |
| **L1** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 35.7 | 33.9 | 37.6 | 36.6 | 27.1 | 16.0 |  |  |
|  | 34.9 | 32.8 | 38.3 | 35.3 |  |  |  |  |
|  | 37.9 | 33.2 | 38.7 | 37.7 |  | 15.7 |  |  |
|  | 36.2 | 33.9 |  | 36.7 |  |  |  |  |
|  | 37.5 | 33.9 | 37.6 | 37.7 | 25.8 |  |  |  |
|  | 37.7 | 33.1 | 35.8 | 34.9 |  | 15.2 |  |  |
|  | 36.0 | 34.0 | 36.0 | 35.6 | 25.5 |  |  |  |
|  | 35.0 | 34.2 | 39.3 | 38.0 |  | 16.4 |  |  |
|  | 36.0 | 33.3 | 39.0 | 36.7 | 26.5 |  |  |  |
|  | 36.3 | 32.6 |  |  | 25.3 |  |  |  |
|  | 34.8 | 31.3 | 37.0 | 35.2 |  | 16.1 |  |  |
|  | 37.2 | 32.7 | 38.3 | 34.5 | 26.0 |  |  |  |
|  | 36.1 | 31.4 | 38.1 | 34.9 |  |  |  |  |
|  | 37.3 | 32.1 | 37.9 | 34.9 |  |  |  |  |
|  | 37.9 | 31.9 | 37.8 | 35.2 | 27.6 | 15.3 |  |  |
|  | 38.2 | 33.2 |  | 35.3 | 25.6 |  |  | 2.0 |
|  | 36.0 | 33.6 | 38.0 |  |  |  |  |  |
|  | 37.6 | 31.2 | 36.3 | 37.8 | 26.9 |  |  |  |
|  | 35.2 | 32.9 | 37.3 | 34.5 | 25.9 |  |  |  |
|  | 36.0 | 32.5 |  | 34.5 | 26.0 |  |  |  |
|  | 38.1 | 32.6 | 38.6 | 35.8 |  |  |  |  |
|  | 37.5 | 32.0 | 37.9 | 36.8 | 27.3 | 15.1 |  |  |
|  | 37.3 | 33.9 | 38.9 | 34.5 | 27.0 |  |  |  |
|  | 35.2 | 32.3 |  | 37.6 |  |  |  |  |

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|  | 36.0 | 33.7 | 38.9 | 37.9 | 26.6 | 15.1 |  |  |
|  | 38.1 | 33.5 | 38.1 | 34.8 | 25.6 |  |  |  |
|  | 35.1 | 32.7 | 39.4 | 36.0 |  |  | 4.0 |  |
|  | 37.2 | 34.0 | 39.4 | 37.0 | 26.4 |  |  |  |
|  | 35.3 | 31.2 |  | 35.3 | 25.6 | 15.8 |  |  |
|  | 35.6 | 32.5 | 37.6 | 37.6 |  |  |  |  |
|  | 35.6 | 31.4 | 36.0 | 36.5 |  |  |  |  |
|  | 36.0 | 32.8 | 37.4 | 38.0 |  |  |  |  |
|  | 37.9 | 33.8 | 36.1 | 36.3 | 26.9 |  |  |  |
|  | 37.2 | 33.1 | 36.8 | 35.9 | 27.5 |  |  |  |
|  | 37.6 | 31.5 | 36.7 | 34.7 |  | 15.5 |  |  |
|  | 34.8 | 31.1 | 37.2 |  | 27.9 |  |  |  |
|  | 37.9 | 32.8 |  | 37.9 |  | 15.4 |  |  |
|  | 35.0 | 32.5 | 36.9 | 34.4 |  |  |  |  |
|  | 37.3 | 32.7 | 37.9 | 35.8 |  |  |  |  |
|  | 34.8 | 31.5 | 36.2 | 36.2 | 27.4 | 15.4 |  |  |
|  | 36.2 | 31.1 | 39.1 | 35.2 | 25.3 |  |  |  |
|  | 36.5 | 33.9 | 38.2 |  |  |  |  |  |
|  | 38.1 | 32.8 | 38.2 | 36.5 |  |  |  |  |
|  | 34.9 | 31.2 |  | 37.4 | 26.2 |  |  |  |
|  | 36.0 | 33.8 | 38.5 | 34.6 | 27.2 |  |  |  |
|  | 35.1 |  | 36.3 | 37.2 | 25.7 |  |  |  |
|  | 35.7 | 31.6 | 36.5 | 36.3 | 27.4 |  |  |  |
|  | 34.7 | 31.6 | 37.5 | 34.7 |  | 16.2 |  |  |
|  | 35.2 | 34.1 | 39.4 | 34.6 | 26.3 | 15.8 |  |  |
|  | 36.9 | 33.4 | 37.6 |  | 26.7 |  |  |  |
|  | 35.0 | 33.4 |  | 35.0 |  | 16.2 |  |  |
|  | 35.8 | 34.2 | 38.1 | 36.3 | 27.2 | 15.5 |  |  |
|  | 37.7 |  | 39.5 | 35.9 |  |  |  |  |
|  | 37.6 | 31.6 | 39.4 | 37.8 |  |  |  |  |
|  | 37.5 | 32.3 | 38.1 | 37.2 | 27.4 |  |  |  |
|  | 35.6 | 32.8 | 37.4 | 35.4 |  | 15.9 |  |  |
|  | 36.2 | 32.9 |  | 37.1 | 25.9 |  |  |  |
|  | 37.9 | 31.9 | 36.3 | 37.5 | 25.3 |  |  |  |
|  | 35.4 | 31.5 | 38.3 | 36.3 |  |  |  |  |
|  | 35.2 |  | 39.0 | 36.9 | 26.6 |  |  |  |
|  | 35.4 | 32.7 | 36.2 | 34.5 |  |  |  |  |
|  | 35.0 | 31.5 |  |  | 26.7 |  |  |  |
|  | 34.9 | 32.8 | 36.4 | 36.5 |  | 16.4 |  |  |
|  | 36.4 | 31.1 | 38.7 | 35.6 | 26.9 |  |  |  |
|  | 37.0 |  | 37.9 | 36.8 |  |  |  |  |
|  | 37.7 | 32.6 |  | 37.1 |  |  |  |  |
|  | 35.0 | 32.8 | 37.5 |  | 27.6 | 16.1 |  |  |
|  | 34.8 | 34.2 | 37.6 | 36.6 |  |  |  |  |
|  | 35.2 | 34.2 | 36.8 | 36.8 | 27.3 |  |  |  |
|  | 34.9 | 31.3 | 38.6 | 36.2 | 26.3 |  |  |  |
|  | 36.7 |  | 36.1 | 36.3 |  | 15.9 |  |  |
|  | 36.0 | 32.3 |  | 36.9 | 25.9 |  |  |  |
|  | 35.7 |  | 38.4 | 37.7 | 25.6 |  |  |  |
|  | 37.0 | 31.1 | 36.9 |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 37.0 | 33.5 |  | 36.2 | 27.3 | 14.9 |  |  |
|  | 38.2 | 32.7 | 36.0 | 37.0 | 25.3 |  |  |  |
|  | 36.1 | 33.3 | 36.9 | 34.6 |  |  |  |  |
|  | 38.1 | 31.7 | 35.8 | 37.6 | 27.1 | 15.5 |  |  |
|  | 35.7 |  | 38.7 | 37.6 |  |  |  |  |
|  | 35.3 | 34.0 |  | 37.4 | 27.6 |  |  |  |
|  | 36.9 | 34.2 | 39.2 | 37.8 |  | 15.3 |  |  |
|  | 36.5 | 31.3 | 38.7 |  | 27.0 | 15.0 |  |  |
|  | 37.7 |  | 39.6 | 37.5 | 25.8 |  |  |  |
|  | 35.7 | 33.9 |  | 36.3 | 27.0 | 14.9 |  |  |
|  | 36.3 | 33.5 | 37.8 | 37.5 |  |  |  |  |
|  | 36.5 | 33.6 | 37.1 | 37.3 | 27.4 |  |  |  |
|  | 35.9 | 33.7 | 35.9 | 37.1 |  | 15.3 |  |  |
|  | 37.4 | 32.2 | 36.3 | 37.2 | 25.3 |  |  |  |
|  | 38.2 |  | 35.8 | 36.0 |  |  |  |  |
|  | 36.1 | 33.6 | 38.5 | 37.1 | 27.8 | 15.5 |  |  |
|  | 34.8 | 33.1 | 36.4 |  | 27.8 |  |  |  |
|  | 38.1 |  | 39.0 | 36.4 |  |  |  |  |
|  | 35.5 | 32.9 |  | 34.7 | 25.8 |  |  |  |
|  | 36.4 | 34.1 | 38.6 | 35.2 | 27.6 |  |  |  |
|  | 35.8 | 33.8 | 39.3 | 35.9 |  | 16.3 |  |  |
|  | 36.5 | 31.3 | 39.0 | 34.7 | 26.1 |  |  |  |
|  | 37.9 | 32.3 | 39.4 | 36.5 |  | 15.7 |  |  |
|  | 34.9 | 31.1 |  | 38.0 | 26.0 |  |  |  |
|  | 37.3 |  | 37.5 | 37.6 | 25.4 |  |  |  |
|  | 37.9 | 32.8 | 36.7 | 35.2 | 25.6 |  |  |  |
|  | 37.2 | 33.6 | 37.4 | 36.7 | 27.5 | 14.9 |  |  |
|  | 37.2 | 31.7 | 39.2 |  |  |  |  |  |
|  | 37.1 |  |  | 38.0 |  |  |  |  |
|  | 38.0 | 33.5 | 39.4 | 35.7 | 26.6 | 15.5 |  |  |
|  | 36.8 | 31.6 | 38.7 | 37.6 | 26.2 |  |  |  |
|  | 35.9 | 33.7 | 36.9 | 36.1 | 25.8 |  |  |  |
|  | 36.5 | 33.5 | 38.4 | 34.6 | 27.1 |  |  |  |
|  | 36.2 | 32.0 | 38.7 | 36.7 | 26.4 |  |  |  |
|  | 35.2 | 33.3 | 36.7 | 34.8 | 26.1 |  |  |  |
|  | 37.1 | 33.4 | 36.0 | 36.9 | 25.7 |  |  |  |
|  | 37.9 | 32.4 |  | 35.3 | 27.1 | 15.9 |  |  |
|  | 36.0 | 31.6 | 39.4 | 38.0 | 26.8 |  |  |  |
|  | 35.6 | 33.5 | 37.0 | 37.9 | 26.8 |  |  |  |
|  | 36.2 | 31.2 |  |  | 27.3 |  |  |  |
|  | 37.5 |  | 36.9 | 35.1 | 25.3 |  |  |  |
|  | 35.9 | 31.5 | 38.4 | 36.3 |  |  |  |  |
|  |  | 33.2 | 38.5 | 36.8 | 27.2 |  |  |  |
|  | 37.8 | 33.0 |  | 36.9 | 26.7 |  |  |  |
|  | 37.8 | 32.2 | 35.9 | 37.1 | 26.0 |  |  |  |
|  | 37.8 | 32.9 |  | 36.6 | 27.8 | 15.3 |  |  |
|  | 35.8 | 32.7 | 35.9 |  |  |  |  |  |
|  | 35.6 |  | 37.3 | 37.3 | 25.8 |  |  |  |
|  | 37.9 | 32.7 | 35.8 | 35.8 | 27.3 | 15.3 |  |  |
|  | 38.0 | 34.2 | 38.4 | 34.8 | 26.1 |  |  |  |

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|  | 37.5 | 33.1 | 39.1 | 38.0 | 27.0 | 15.5 |  |  |
|  | 37.8 | 31.8 | 38.2 |  | 25.7 |  |  |  |
|  | 35.5 | 31.6 | 38.0 | 34.9 | 26.3 | 16.2 |  |  |
|  | 34.9 | 31.1 | 36.2 | 37.1 | 27.4 |  |  |  |
| **Среднее** | **36.448** | **32.694** | **37.711** | **36.321** | **26.535** | **15.603** |  |  |
| **Максимум** | **38.2** | **34.2** | **39.6** | **38.0** | **27.9** | **16.4** |  |  |
| **Минимум** | **34.7** | **31.1** | **35.8** | **34.4** | **25.3** | **14.9** |  |  |
| **L2** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 34.8 | 32.6 | 26.5 | 21.8 | 19.9 |  |  |  |
|  | 32.2 |  | 25.7 | 22.4 | 20.6 |  |  |  |
|  | 33.1 | 31.6 | 26.0 |  | 20.7 |  |  |  |
|  | 34.6 | 31.9 |  | 22.9 | 18.8 |  |  |  |
|  | 35.0 | 33.8 | 25.0 |  | 19.2 |  |  |  |
|  | 34.5 | 32.2 | 26.3 | 21.7 |  |  |  |  |
|  | 34.5 | 31.5 |  | 21.5 | 20.3 |  |  |  |
|  | 32.3 | 33.9 | 25.5 | 21.7 | 20.8 |  |  |  |
|  | 32.3 |  | 25.1 | 21.7 |  |  |  |  |
|  | 34.7 | 34.0 | 26.1 | 21.9 |  |  |  |  |
|  | 32.5 | 33.8 | 25.9 |  | 20.1 |  |  |  |
|  | 35.0 | 32.8 |  | 21.7 | 20.5 |  |  |  |
|  | 33.6 |  | 25.7 | 22.4 | 19.3 | 2.0 |  |  |
|  | 35.1 | 33.5 | 27.0 | 23.2 | 19.4 |  |  |  |
|  | 33.5 | 31.0 | 27.4 | 21.3 |  |  |  |  |
|  | 32.8 | 31.5 | 26.5 | 22.3 | 18.8 |  |  |  |
|  | 32.6 | 31.4 | 26.9 |  | 18.9 |  |  |  |
|  | 33.4 | 34.0 | 27.2 | 22.5 |  |  |  |  |
|  | 32.2 |  | 26.5 | 22.2 | 19.4 |  |  |  |
|  | 33.3 | 31.9 | 25.7 | 22.2 |  |  |  |  |
|  | 34.4 | 31.3 | 25.9 | 22.0 | 19.5 |  |  |  |
|  | 32.9 | 33.8 | 25.9 | 22.4 |  |  |  |  |
|  | 32.7 | 31.1 | 25.3 |  | 20.5 |  |  |  |
|  | 34.4 | 32.2 | 25.0 | 21.5 |  |  |  |  |
|  | 34.6 | 33.0 | 25.8 | 21.4 | 20.3 |  |  |  |
|  | 33.1 | 31.8 |  | 21.2 |  |  |  |  |
|  | 33.6 | 31.5 | 26.1 | 22.4 | 20.0 |  |  |  |
|  | 33.4 | 33.8 | 25.4 | 22.7 | 20.7 |  |  |  |
|  | 32.6 | 32.9 | 27.4 | 21.4 |  |  |  |  |
|  | 32.2 | 31.9 | 27.1 | 22.3 |  |  |  |  |
|  | 32.9 | 30.9 |  | 22.3 | 20.6 |  |  |  |
|  | 34.6 | 33.1 | 25.3 | 21.2 |  |  |  |  |
|  | 34.9 | 34.0 | 27.0 | 23.1 | 19.4 |  |  |  |
|  | 33.2 | 32.9 | 25.9 |  |  |  |  |  |
|  | 32.3 | 33.2 | 27.3 | 21.9 | 19.8 |  |  |  |
|  | 33.8 | 31.5 | 25.3 | 21.3 |  |  |  |  |
|  | 33.6 | 32.7 | 27.4 | 22.4 | 19.5 |  |  |  |
|  | 33.2 | 32.1 | 26.9 |  | 19.1 |  |  |  |
|  | 35.1 | 31.3 | 25.2 | 22.8 |  |  |  |  |
|  | 34.1 |  | 25.1 |  |  |  |  |  |

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|  | 34.2 | 31.1 | 26.4 |  |  |  |  |  |
|  | 32.7 | 31.5 | 25.0 | 21.3 | 20.1 |  |  |  |
|  | 34.9 | 32.5 | 25.5 | 21.4 | 18.9 |  |  |  |
|  | 33.8 | 30.8 | 25.1 |  |  |  |  |  |
|  | 32.3 | 32.2 | 26.7 | 22.5 | 19.7 |  |  |  |
|  | 34.7 | 32.0 | 26.8 | 22.2 |  |  |  |  |
|  | 34.5 | 31.5 | 26.3 | 21.4 |  |  |  |  |
|  | 32.7 | 32.1 |  |  | 20.6 |  |  |  |
|  | 34.6 | 32.2 | 27.4 | 21.1 |  |  |  |  |
|  | 35.0 | 33.9 | 25.6 | 21.8 | 19.2 |  |  |  |
|  | 33.1 | 32.4 | 25.5 |  |  |  |  |  |
|  | 34.6 | 31.1 |  | 22.0 | 19.8 |  |  |  |
|  | 34.0 | 32.3 | 27.1 |  | 19.3 |  |  |  |
|  | 33.2 | 32.3 | 25.1 | 23.1 |  |  |  |  |
|  | 32.8 | 31.7 | 26.8 | 22.5 | 19.9 |  |  |  |
|  | 32.2 | 33.2 | 25.4 | 22.6 | 19.8 |  |  |  |
|  | 32.4 | 32.0 |  | 21.0 | 20.0 |  |  |  |
|  | 33.0 |  | 25.0 | 22.6 |  |  |  |  |
|  | 33.1 | 31.2 | 26.8 | 22.0 |  |  |  |  |
|  | 32.3 | 31.3 | 25.4 | 23.1 |  |  |  |  |
|  | 34.6 | 31.4 | 27.5 | 22.3 | 20.2 |  |  |  |
|  | 35.2 | 31.1 | 27.5 | 21.0 | 19.2 |  |  |  |
|  | 33.0 | 32.4 | 26.8 | 23.0 | 19.2 |  |  |  |
|  | 32.9 | 33.6 |  | 22.1 | 19.9 |  |  | 7.0 |
|  | 34.8 | 31.5 | 25.6 | 21.7 | 19.6 |  |  |  |
|  | 34.1 | 32.5 | 25.6 | 23.0 |  |  |  |  |
|  | 33.1 | 32.6 | 26.3 | 23.1 | 19.5 |  | 3.0 |  |
|  | 33.5 | 33.0 | 25.2 | 22.6 | 20.2 |  |  |  |
|  | 34.9 | 33.5 | 27.5 | 22.2 |  |  |  |  |
|  | 34.4 | 31.3 | 26.0 |  | 20.0 |  |  |  |
|  | 35.0 | 32.7 | 26.2 |  |  |  |  |  |
|  | 33.9 | 31.4 | 25.2 | 23.1 |  |  |  |  |
|  | 35.2 | 32.8 | 25.0 | 21.7 |  |  |  |  |
|  | 33.2 | 33.9 | 27.1 |  |  |  |  |  |
|  | 33.1 | 32.2 | 27.4 | 22.1 | 20.5 |  |  |  |
|  | 32.6 | 31.0 | 26.6 | 21.2 | 20.7 |  |  |  |
|  | 33.5 | 33.7 | 26.2 | 22.3 |  |  |  |  |
|  | 32.4 | 32.5 | 26.8 |  |  |  |  |  |
|  | 34.3 | 31.6 | 25.3 | 21.7 | 19.2 |  |  |  |
|  | 32.0 | 31.0 | 26.4 |  |  |  |  |  |
|  | 34.2 | 31.7 | 25.5 | 22.2 |  |  |  |  |
|  | 33.0 | 31.0 | 26.0 | 23.2 |  |  |  |  |
|  | 32.4 | 33.9 |  |  | 19.4 |  |  |  |
|  | 34.9 |  | 25.2 | 21.7 | 20.6 |  |  |  |
|  | 32.7 | 31.2 | 25.6 |  | 20.8 |  |  |  |
|  | 34.3 | 33.8 |  | 21.6 | 19.2 |  |  |  |
|  | 33.3 | 31.4 | 25.8 | 22.4 |  |  |  |  |
|  | 32.0 | 31.6 | 25.5 | 22.2 | 19.4 |  |  |  |
|  | 32.0 |  | 27.0 | 21.1 |  |  |  |  |
|  | 34.5 | 33.4 | 26.3 | 22.5 |  |  |  |  |

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|  | 34.4 | 32.9 |  | 23.1 | 19.3 |  |  |  |
|  | 35.2 | 30.9 | 25.6 | 22.0 | 20.3 |  |  |  |
|  | 34.3 | 33.1 | 25.2 |  | 19.2 |  |  |  |
|  | 34.6 | 31.9 | 26.0 | 22.5 |  |  |  |  |
|  | 32.2 | 32.1 | 25.0 | 22.0 |  |  |  |  |
|  | 34.3 | 30.8 | 25.2 |  | 20.4 |  |  |  |
|  | 34.1 | 33.3 | 25.0 | 23.1 |  |  |  |  |
|  | 34.7 | 30.8 | 25.1 |  | 20.4 |  |  |  |
|  | 34.6 | 33.4 | 26.9 | 21.7 | 19.9 |  |  |  |
|  | 32.5 | 33.8 | 25.4 | 21.1 |  |  |  |  |
|  | 33.7 | 31.3 | 26.2 | 21.6 |  |  |  |  |
|  | 35.1 | 31.2 | 26.7 | 21.1 |  |  |  |  |
|  | 34.5 | 33.5 | 26.4 |  | 20.7 |  |  |  |
|  | 33.2 |  | 26.5 | 22.1 |  |  |  |  |
|  | 34.6 | 33.7 | 26.3 | 21.2 | 20.8 |  |  |  |
|  | 34.4 | 31.8 | 27.1 | 21.5 | 19.2 |  |  |  |
|  | 34.8 | 32.8 | 26.6 |  | 19.8 |  |  |  |
|  | 34.3 |  | 25.7 | 21.9 |  |  |  |  |
|  | 34.1 | 33.0 | 25.8 | 21.2 |  |  |  |  |
|  | 32.6 | 32.7 |  | 23.1 | 20.4 |  |  |  |
|  | 35.2 | 31.8 | 25.8 |  |  |  |  |  |
|  | 33.3 | 33.1 | 25.1 | 21.6 | 18.8 |  |  |  |
|  | 32.2 |  | 26.5 | 21.7 |  |  |  |  |
|  | 33.4 | 32.9 |  | 22.0 | 19.3 |  |  |  |
|  | 32.7 | 31.4 | 26.7 | 21.2 |  |  |  |  |
|  | 33.2 | 31.5 |  |  | 20.5 |  |  |  |
|  | 34.9 | 31.5 | 26.2 | 21.6 | 20.4 |  |  |  |
|  | 33.1 | 31.0 | 26.3 | 21.0 |  |  |  |  |
|  | 34.7 | 31.2 | 26.8 | 23.2 |  |  |  |  |
|  | 32.8 | 32.3 | 26.3 | 22.6 | 20.5 |  |  |  |
|  | 32.5 | 33.9 |  | 23.1 | 19.0 |  |  |  |
|  | 32.6 | 33.1 | 27.2 |  | 20.5 |  |  |  |
|  | 34.1 | 31.4 | 26.3 | 22.1 |  |  |  |  |
|  | 32.0 | 33.6 | 27.5 |  | 20.2 |  |  |  |
|  | 35.2 | 33.6 |  | 22.1 |  |  |  |  |
|  | 32.1 | 31.9 | 27.4 | 22.4 | 20.4 |  |  |  |
|  | 32.9 | 31.8 | 26.1 |  | 19.9 |  |  |  |
|  | 32.9 | 33.9 | 26.1 | 22.1 | 19.0 |  |  |  |
| **Среднее** | **33.624** | **32.304** | **26.124** | **22.061** | **19.853** |  |  |  |
| **Максимум** | **35.2** | **34.0** | **27.5** | **23.2** | **20.8** |  |  |  |
| **Минимум** | **32.0** | **30.8** | **25.0** | **21.0** | **18.8** |  |  |  |
| **L3** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 43.3 | 39.2 | 36.3 | 41.7 | 32.9 | 32.9 | 35.5 |  |
|  | 39.9 | 36.8 | 37.1 | 40.8 | 31.8 | 32.9 |  |  |
|  | 43.3 |  | 36.8 | 39.7 | 31.2 | 33.5 | 35.4 |  |
|  | 39.6 | 37.1 | 35.6 | 40.8 |  |  |  |  |
|  | 40.1 | 36.9 | 36.8 | 40.0 | 31.3 | 36.3 | 34.9 |  |
|  | 40.9 | 38.4 | 38.4 | 40.3 | 33.7 | 35.6 | 35.8 |  |

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|  | 42.0 | 38.4 | 35.3 | 40.9 | 32.0 | 33.9 | 34.9 |  |
|  | 40.7 | 38.1 | 38.2 | 41.0 |  |  |  |  |
|  | 42.5 | 40.0 |  | 41.2 | 33.3 | 34.1 | 35.9 |  |
|  | 39.8 | 37.8 | 35.3 | 40.4 | 32.4 | 35.4 | 36.0 |  |
|  | 42.0 | 38.3 | 35.9 | 40.0 | 31.7 | 33.7 | 35.6 |  |
|  | 41.8 | 37.3 | 37.2 | 40.3 | 31.4 | 35.3 |  |  |
|  | 42.8 | 40.1 |  | 39.1 | 30.8 | 33.6 | 33.6 |  |
|  | 43.5 | 40.1 | 36.3 | 40.8 |  | 35.8 | 34.8 |  |
|  | 43.5 | 39.0 | 35.7 | 42.1 | 33.1 | 32.9 | 34.8 | 6.0 |
|  | 40.7 | 38.8 | 35.9 | 42.7 | 31.2 |  |  |  |
|  | 40.0 |  | 38.4 | 40.3 | 32.9 | 33.1 | 35.2 |  |
|  | 43.4 | 38.5 | 38.4 | 38.8 | 31.7 |  | 34.8 |  |
|  | 42.0 | 40.1 |  | 41.1 |  | 33.0 | 33.2 |  |
|  | 39.6 | 37.8 | 36.6 | 42.4 | 32.2 |  |  |  |
|  | 41.9 | 39.7 | 37.3 | 39.1 | 31.4 | 36.2 | 35.7 |  |
|  | 40.3 | 38.0 | 35.5 | 39.3 | 31.1 | 33.3 | 33.9 |  |
|  | 39.7 | 36.8 | 37.8 | 42.4 | 33.2 |  |  |  |
|  | 42.9 | 38.8 | 37.2 | 41.1 | 33.2 | 36.0 | 34.0 |  |
|  | 42.3 | 37.9 | 35.8 | 42.7 | 33.3 | 32.9 | 33.6 |  |
|  | 42.5 | 37.7 | 36.8 | 39.9 | 31.3 | 35.6 | 35.9 |  |
|  | 43.4 | 37.1 | 37.0 | 39.7 | 31.2 | 35.7 |  |  |
|  | 40.5 | 37.4 | 35.8 | 42.1 |  |  | 35.6 |  |
|  | 42.6 | 36.8 | 36.9 | 39.8 | 33.6 | 33.6 | 35.1 |  |
|  | 42.4 | 39.3 | 38.3 | 42.7 | 31.6 | 34.8 | 34.3 |  |
|  | 41.0 | 39.8 | 35.7 | 39.9 | 31.8 | 35.0 |  |  |
|  | 43.3 | 38.6 | 37.4 | 39.2 | 33.8 | 35.3 | 33.8 |  |
|  | 40.7 | 36.7 | 37.7 | 42.6 | 31.7 |  | 35.8 |  |
|  | 42.9 | 39.9 | 38.5 | 39.2 | 30.6 | 34.8 |  |  |
|  | 40.7 | 39.4 | 35.9 | 42.4 |  | 33.5 | 33.6 |  |
|  | 41.4 | 38.7 | 35.4 | 41.2 | 33.5 | 35.7 |  |  |
|  | 41.3 | 39.5 |  | 41.6 | 32.6 | 36.1 | 35.7 |  |
|  | 40.4 | 39.7 | 36.2 | 39.1 | 32.7 | 33.0 | 32.9 |  |
|  | 42.4 | 37.1 | 36.5 | 42.4 | 33.2 | 35.5 | 34.5 |  |
|  | 41.4 | 38.5 | 38.1 | 42.5 | 33.0 |  | 33.4 |  |
|  | 42.2 | 39.7 | 35.8 | 42.0 |  | 33.8 | 35.5 |  |
|  | 40.0 | 39.7 |  | 39.8 | 32.8 | 36.3 | 35.0 |  |
|  | 40.4 | 39.3 | 36.2 | 39.3 | 31.2 | 34.7 | 35.7 |  |
|  | 43.0 | 39.7 | 36.1 | 39.7 | 31.3 | 34.8 | 34.2 |  |
|  | 39.7 | 38.0 | 36.6 | 42.3 | 33.5 |  | 33.3 |  |
|  | 43.4 | 38.4 | 35.4 | 39.0 |  | 34.4 |  |  |
|  | 42.6 | 38.8 | 38.0 | 39.6 | 30.8 | 33.8 | 33.6 |  |
|  | 42.6 | 39.4 | 35.7 | 41.6 | 31.7 | 34.4 |  |  |
|  | 42.3 | 37.2 | 38.0 | 40.7 | 30.7 | 33.3 | 35.5 |  |
|  | 41.7 | 40.1 | 37.3 | 42.7 |  |  | 35.7 |  |
|  | 41.1 | 39.8 | 38.4 | 39.2 | 31.3 | 33.4 |  |  |
|  | 41.1 | 37.1 | 36.0 | 42.2 | 32.9 | 33.8 | 33.3 |  |
|  | 43.8 | 39.6 | 35.2 | 41.3 |  | 34.7 | 34.2 |  |
|  | 40.1 | 38.4 | 37.7 | 38.8 | 33.6 | 34.2 | 32.9 |  |
|  | 42.0 | 40.0 | 38.1 | 42.4 | 30.6 | 33.3 |  |  |
|  | 39.7 | 39.2 | 37.9 | 41.8 | 33.0 |  | 33.6 |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 42.9 | 36.3 | 36.2 | 40.9 |  | 33.9 | 34.9 |  |
|  | 42.6 | 37.7 | 35.1 | 42.3 | 31.5 | 34.1 | 35.2 |  |
|  | 40.7 | 39.2 | 37.7 | 39.0 | 30.8 |  |  |  |
|  | 43.2 | 39.0 | 37.7 | 42.8 |  | 34.8 | 35.3 |  |
|  | 41.0 | 36.5 |  | 39.1 | 32.4 | 33.7 | 33.4 |  |
|  | 40.5 | 38.1 | 37.7 | 42.3 | 31.4 | 33.7 |  |  |
|  | 42.3 | 39.2 | 35.3 | 41.2 | 33.4 | 35.1 | 33.2 |  |
|  | 41.8 | 36.3 | 36.2 | 39.0 |  | 35.6 |  |  |
|  | 40.2 | 38.5 | 35.3 | 39.7 | 33.2 | 36.0 | 34.7 |  |
|  | 43.2 | 37.8 | 35.2 | 41.8 |  | 34.5 |  |  |
|  | 43.4 | 37.8 |  | 41.9 | 31.7 | 33.2 | 33.0 |  |
|  | 43.1 | 38.3 | 37.3 | 40.7 | 31.8 |  | 35.6 |  |
|  | 43.3 | 39.3 | 37.4 | 41.3 |  | 33.3 | 34.7 |  |
|  | 41.3 |  | 35.3 | 40.0 | 33.1 | 33.4 | 36.0 |  |
|  | 41.1 | 37.4 | 37.7 | 40.0 | 31.8 | 35.6 |  |  |
|  | 42.8 | 40.0 | 36.3 | 42.0 |  | 35.8 | 35.9 |  |
|  | 40.3 | 37.4 | 37.9 | 41.7 | 33.6 | 36.0 | 34.1 |  |
|  | 42.1 | 38.6 | 36.8 | 39.0 | 32.7 |  | 33.3 |  |
|  | 43.7 | 39.6 | 37.3 | 39.9 |  | 35.6 |  |  |
|  | 40.1 | 39.6 | 37.2 | 38.8 | 31.4 | 35.5 | 33.2 |  |
|  | 39.9 |  | 36.6 | 39.9 | 32.9 |  | 34.0 |  |
|  | 40.5 | 37.7 | 38.2 | 42.3 | 32.3 | 34.7 | 35.3 |  |
|  | 41.3 | 39.9 | 34.9 | 39.5 | 33.2 | 34.0 |  |  |
|  | 41.3 | 39.6 | 36.2 |  | 33.8 |  | 33.2 |  |
|  | 42.1 | 38.1 | 35.7 | 42.7 |  | 33.8 | 34.4 |  |
|  | 41.4 | 38.0 | 35.8 | 40.3 | 31.8 | 35.8 | 33.6 |  |
|  | 43.1 | 38.0 |  | 41.9 | 31.9 | 34.8 | 33.8 |  |
|  | 42.9 | 36.7 | 35.0 | 38.9 | 31.4 | 33.9 | 36.1 |  |
|  | 40.8 | 39.8 | 38.0 | 40.3 | 32.0 | 33.4 |  |  |
|  | 40.8 | 37.3 |  | 39.6 |  | 33.8 | 34.1 |  |
|  | 40.5 | 39.8 | 35.4 |  | 31.6 |  | 33.5 |  |
|  | 43.7 | 38.2 | 38.3 | 41.9 | 31.3 | 35.2 |  |  |
|  | 40.9 | 37.9 | 35.9 | 42.3 | 30.6 | 33.4 | 33.2 |  |
|  | 40.1 | 36.4 | 38.5 | 39.6 | 31.3 | 34.7 | 35.8 |  |
|  | 42.1 | 36.9 | 35.0 |  | 31.9 |  | 34.8 |  |
|  | 42.1 | 38.8 | 37.9 | 40.8 |  |  | 35.3 |  |
|  | 39.9 | 39.4 | 37.3 | 39.5 | 33.8 | 34.4 |  |  |
|  | 42.1 | 38.2 | 38.5 | 40.1 | 31.5 | 35.8 | 36.0 |  |
|  | 43.7 | 36.3 | 38.1 | 41.6 | 31.2 | 34.9 | 33.2 |  |
|  | 40.7 | 36.9 | 37.7 | 42.3 | 31.1 |  | 35.0 |  |
|  | 40.6 |  | 38.5 | 39.1 |  |  | 34.4 |  |
|  | 42.6 | 39.6 | 36.4 | 39.2 | 32.7 | 33.2 |  |  |
|  | 41.4 | 37.9 | 35.4 | 42.3 | 32.0 |  | 33.4 |  |
|  | 43.2 | 38.7 |  |  | 31.2 | 33.6 | 36.0 |  |
|  | 42.3 | 39.9 | 38.5 | 41.0 |  | 33.0 | 34.7 |  |
|  | 39.8 |  | 37.0 | 40.2 | 32.0 | 34.4 |  |  |
|  | 40.9 | 37.0 | 35.2 | 38.9 | 32.9 |  | 35.7 |  |
|  | 39.6 | 36.7 | 36.2 |  | 40.0 | 34.0 | 35.1 |  |
|  | 43.6 | 37.8 | 37.8 | 40.5 | 31.3 |  | 35.7 |  |
|  | 39.7 |  | 37.5 | 41.0 |  | 36.3 | 33.6 |  |

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|  | 40.9 | 38.3 |  | 38.8 | 11.2 |  |  |  |
|  | 39.7 | 37.7 | 35.0 | 40.7 | 32.1 | 34.0 | 35.4 |  |
|  | 42.2 | 37.6 | 37.1 |  | 30.6 | 35.0 | 34.0 |  |
|  | 43.2 | 40.1 | 37.1 | 39.2 | 32.6 | 35.8 |  |  |
|  | 40.0 | 39.2 | 38.3 | 39.4 | 33.4 | 34.2 | 34.8 |  |
|  | 42.8 | 38.8 |  | 39.9 | 30.8 | 35.1 | 34.8 |  |
|  | 41.3 | 36.8 | 36.9 | 39.8 | 33.2 |  |  |  |
|  | 41.8 | 37.9 | 36.4 | 40.2 | 33.7 | 34.1 | 33.6 |  |
|  | 40.0 | 39.6 | 37.2 | 40.4 | 32.9 | 36.1 | 33.0 |  |
|  | 43.3 | 39.6 | 36.3 | 41.0 |  | 36.2 |  |  |
|  | 41.3 | 37.7 | 38.5 | 42.0 | 41.0 |  | 35.6 |  |
|  | 41.4 |  | 37.1 | 40.7 | 30.7 | 33.2 | 34.0 |  |
|  | 41.7 | 38.1 |  | 42.6 |  | 35.0 |  |  |
|  | 41.6 |  | 37.6 | 39.2 | 31.2 | 35.7 | 33.2 |  |
|  | 42.1 | 37.8 | 37.1 | 41.7 | 32.3 | 33.2 | 34.6 |  |
|  | 43.3 | 36.5 | 38.3 |  | 43.0 |  |  |  |
|  | 41.4 | 36.9 | 37.9 | 39.2 |  | 36.2 |  |  |
|  | 41.7 | 36.5 | 35.8 | 40.1 | 33.1 | 35.7 | 35.5 |  |
|  | 41.5 | 36.6 | 37.7 | 40.7 | 31.9 | 34.3 | 32.9 |  |
|  | 40.4 | 38.8 | 36.1 | 41.7 |  |  |  |  |
|  | 40.8 |  | 35.2 | 39.4 | 31.0 | 36.1 |  |  |
|  | 39.7 | 40.1 | 35.5 | 39.7 | 31.9 |  | 33.8 |  |
| **Среднее** | **41.607** | **38.359** | **36.800** | **40.662** | **32.183** | **34.540** | **34.540** |  |
| **Максимум** | **43.8** | **40.1** | **38.5** | **42.8** | **43.0** | **36.3** | **36.1** |  |
| **Минимум** | **39.6** | **36.3** | **34.9** | **38.8** | **11.2** | **32.9** | **32.9** |  |
| **L4** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 30.9 | 30.4 | 26.3 | 26.5 | 27.7 | 20.6 | 6.0 | 3.0 |
|  | 32.1 | 32.6 | 27.0 | 24.5 | 27.7 |  |  |  |
|  | 31.2 | 31.8 |  | 24.7 |  | 22.0 |  |  |
|  | 31.1 | 31.9 | 28.5 |  | 26.4 |  |  |  |
|  | 33.6 | 32.9 | 28.2 | 25.7 | 26.0 | 20.6 |  |  |
|  | 30.8 | 31.9 | 27.0 | 25.5 |  |  |  |  |
|  | 33.7 | 30.0 | 27.6 | 24.8 | 28.8 |  |  |  |
|  | 33.0 | 32.2 | 26.2 | 25.2 | 27.1 |  |  |  |
|  | 31.6 | 30.4 | 26.4 |  |  |  |  |  |
|  | 31.9 | 31.4 |  | 25.4 | 27.4 |  |  |  |
|  | 32.6 | 32.4 | 28.0 | 24.7 | 28.1 | 21.8 |  |  |
|  | 33.4 | 30.2 | 26.5 |  |  | 21.1 |  |  |
|  | 33.8 | 29.9 | 27.7 | 24.5 | 26.7 | 21.3 |  |  |
|  | 32.0 | 30.8 | 27.6 |  | 27.8 |  |  |  |
|  | 30.7 | 30.9 | 27.9 | 24.9 |  | 20.6 |  |  |
|  | 32.5 | 31.9 | 27.7 |  | 26.7 |  |  |  |
|  | 31.2 | 31.5 | 27.3 | 25.8 |  | 20.2 |  |  |
|  | 31.1 | 33.0 | 27.9 |  | 27.2 |  |  |  |
|  | 30.8 | 32.8 | 27.5 | 26.0 | 27.1 | 20.4 |  |  |
|  | 32.1 | 31.6 | 26.8 | 26.4 |  | 21.5 |  |  |
|  | 33.2 | 31.7 |  | 24.8 | 27.1 |  |  |  |
|  | 32.2 | 32.0 | 28.7 |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 33.0 | 32.5 | 27.8 | 25.2 | 27.4 |  |  |  |
|  | 32.4 | 32.9 |  | 24.3 |  |  |  |  |
|  | 32.3 | 30.6 | 28.6 | 25.0 | 26.9 |  |  |  |
|  | 31.3 | 30.7 | 28.0 | 26.2 | 27.8 |  |  |  |
|  | 32.4 | 32.7 | 27.4 | 24.9 |  |  |  |  |
|  | 31.8 | 32.0 | 26.7 |  | 28.1 |  |  |  |
|  | 33.8 | 32.7 | 28.1 | 25.0 | 27.3 |  |  |  |
|  | 33.5 | 30.3 | 28.0 |  |  | 20.7 |  |  |
|  | 32.1 | 31.3 | 28.8 | 25.4 | 27.8 |  |  |  |
|  | 31.9 | 32.2 | 28.2 | 26.4 | 27.1 | 21.0 |  |  |
|  | 31.3 | 30.6 | 26.8 |  |  | 21.9 |  |  |
|  | 33.5 | 32.7 | 28.5 | 25.3 | 26.7 |  |  |  |
|  | 32.1 | 30.2 | 26.3 | 25.5 | 27.2 |  |  |  |
|  | 33.8 | 31.5 | 28.3 | 24.6 |  | 21.4 |  |  |
|  | 31.3 | 30.1 | 28.8 |  | 26.2 | 20.1 |  |  |
|  | 32.2 | 32.0 | 26.8 | 24.7 | 26.1 |  |  |  |
|  | 32.2 | 30.6 | 27.3 | 24.2 |  |  |  |  |
|  | 33.6 | 30.4 | 26.9 |  | 28.7 | 20.5 |  |  |
|  | 33.8 | 32.7 | 26.8 | 25.4 | 26.5 |  |  |  |
|  | 31.4 | 31.7 | 27.6 | 24.3 | 28.2 |  |  |  |
|  | 33.1 | 30.1 | 27.5 |  | 27.8 |  |  |  |
|  | 33.2 | 31.9 | 28.3 | 26.6 | 28.1 | 20.7 |  |  |
|  | 33.6 | 32.5 |  | 26.4 | 26.1 |  |  |  |
|  | 30.7 | 32.6 | 26.8 | 26.5 | 28.1 |  |  |  |
|  | 31.9 | 30.8 | 26.5 |  |  | 20.8 |  |  |
|  | 33.8 | 31.6 | 28.9 | 24.6 | 26.0 |  |  |  |
|  | 33.6 | 33.0 | 27.9 | 24.4 | 27.0 | 22.1 |  |  |
|  | 33.4 | 32.7 |  | 25.2 |  |  |  |  |
|  | 32.4 | 31.0 | 27.5 |  | 28.2 | 22.2 |  |  |
|  | 31.1 | 30.0 | 27.9 | 24.4 | 28.4 |  |  |  |
|  | 33.0 | 33.0 |  | 24.2 |  |  |  |  |
|  | 31.5 | 30.8 | 26.3 | 25.9 | 28.7 | 20.4 |  |  |
|  | 31.9 | 31.3 | 26.2 | 24.9 | 26.7 | 22.0 |  |  |
|  | 32.0 | 31.8 | 26.4 |  | 28.2 |  |  |  |
|  | 31.8 | 30.9 | 28.1 | 26.5 | 26.5 |  |  |  |
|  | 30.7 | 29.9 | 27.7 |  |  |  |  |  |
|  | 33.7 | 30.0 | 27.0 | 24.6 | 28.7 |  |  |  |
|  | 32.3 | 32.8 | 27.9 | 25.5 | 26.0 | 21.0 |  |  |
|  | 32.0 | 32.6 | 27.8 | 24.3 |  |  |  |  |
|  | 33.7 | 30.9 | 27.0 | 24.3 | 27.6 | 20.5 |  |  |
|  | 33.7 | 30.5 | 27.8 |  | 27.7 |  |  |  |
|  | 31.0 | 31.9 | 28.5 | 26.0 |  |  |  |  |
|  | 33.8 | 30.9 | 26.6 |  | 26.1 | 20.4 |  |  |
|  | 32.5 | 32.8 | 27.2 | 26.3 | 26.1 | 21.5 |  |  |
|  | 31.8 | 30.0 | 26.4 | 25.3 |  |  |  |  |
|  | 31.7 | 31.5 | 28.0 | 24.5 | 25.9 | 21.2 |  |  |
|  | 30.9 | 30.3 | 28.8 |  |  |  |  |  |
|  | 33.7 | 32.9 | 27.0 | 24.7 |  | 21.5 |  |  |
|  | 33.7 | 32.3 | 28.9 | 24.2 | 28.8 |  |  |  |
|  | 31.5 | 30.5 | 28.9 |  |  |  |  |  |

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|  | 33.6 | 31.8 | 28.5 | 25.0 | 28.6 |  |  |  |
|  | 31.0 | 32.4 | 28.5 | 25.5 | 27.3 | 21.7 |  |  |
|  | 32.0 | 32.1 | 28.9 |  |  | 21.2 |  |  |
|  | 31.5 | 29.8 | 28.5 | 26.6 | 27.8 |  |  |  |
|  | 31.9 | 32.9 | 27.4 |  |  |  |  |  |
|  | 31.5 | 30.1 | 27.3 | 26.0 | 26.9 | 21.2 |  |  |
|  | 33.9 | 30.2 | 28.5 | 24.8 | 28.4 |  |  |  |
|  | 33.0 | 30.3 | 28.1 |  | 28.1 | 20.3 |  |  |
|  | 31.9 |  | 28.3 | 26.2 |  |  |  |  |
|  | 33.7 | 31.7 | 28.8 | 26.3 |  |  |  |  |
|  | 32.4 | 30.8 | 26.4 |  | 27.8 | 20.2 |  |  |
|  | 32.2 | 31.6 |  | 24.5 | 27.1 |  |  |  |
|  | 33.1 | 32.9 | 27.7 | 24.9 | 27.9 | 20.9 |  |  |
|  | 31.2 | 32.6 | 28.8 | 26.6 |  | 21.5 |  |  |
|  | 33.0 | 31.9 | 26.9 |  |  |  |  |  |
|  | 33.6 | 31.5 | 26.4 | 24.2 | 27.0 |  |  |  |
|  | 31.6 | 30.0 |  | 24.8 |  | 20.9 |  |  |
|  | 33.4 | 32.7 | 28.6 |  | 26.5 | 21.0 |  |  |
|  | 31.2 | 31.7 | 27.9 | 25.7 | 26.7 |  |  |  |
|  | 31.1 | 32.3 | 28.4 | 25.5 | 27.9 | 21.2 |  |  |
|  | 32.4 | 30.1 |  |  |  | 21.7 |  |  |
|  | 33.8 | 30.9 | 28.9 | 26.3 |  | 21.5 |  |  |
|  | 33.8 | 32.3 | 26.4 |  | 28.2 |  |  |  |
|  | 33.4 | 30.1 | 27.6 |  | 26.1 | 20.2 |  |  |
|  | 31.8 | 31.7 | 26.7 | 25.9 | 26.6 |  |  |  |
|  | 33.8 | 32.5 | 26.3 | 26.0 |  |  |  |  |
|  | 30.8 | 32.2 | 27.0 | 24.9 |  |  |  |  |
|  | 32.9 | 32.9 | 26.6 | 25.0 | 27.7 |  |  |  |
|  | 32.9 | 31.6 | 26.2 | 24.4 | 27.8 | 20.9 |  |  |
|  | 32.4 | 32.3 |  | 25.6 |  | 22.3 |  |  |
|  | 32.1 | 31.6 | 28.5 | 24.7 | 26.1 |  |  |  |
|  | 32.1 | 31.7 | 27.2 |  | 28.3 |  |  |  |
|  | 32.2 | 32.3 |  | 25.4 |  |  |  |  |
|  | 31.4 | 30.1 | 26.4 | 25.0 | 25.9 | 21.2 |  |  |
|  | 33.3 | 30.7 | 28.0 |  |  |  |  |  |
|  | 33.3 | 30.2 |  |  | 27.8 | 21.9 |  |  |
|  | 32.7 | 30.0 | 26.3 | 26.4 |  |  |  |  |
|  | 31.1 | 31.8 | 27.1 | 25.0 | 27.0 |  |  |  |
|  | 32.6 | 31.2 | 28.1 | 24.4 | 26.8 | 21.0 |  |  |
|  | 33.6 | 32.3 | 28.3 |  | 28.0 | 22.1 |  |  |
|  | 32.0 |  | 27.2 |  | 26.4 |  |  |  |
|  | 32.7 | 32.3 | 26.6 | 25.6 | 26.5 | 20.6 |  |  |
|  | 33.4 | 32.4 | 26.9 | 24.3 |  | 21.5 |  |  |
|  | 31.0 | 31.4 |  |  | 26.0 |  |  |  |
|  | 31.5 | 32.6 | 28.0 |  |  |  |  |  |
|  | 32.4 | 32.7 | 27.8 | 26.1 |  |  |  |  |
|  | 33.9 | 31.8 |  |  | 28.6 |  |  |  |
|  | 31.9 | 30.4 | 27.9 | 25.7 | 25.9 | 21.3 |  |  |
|  | 32.3 | 31.5 | 27.9 | 25.3 |  |  |  |  |
|  | 31.4 | 31.0 | 27.1 |  |  | 20.7 |  |  |

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|  | 31.5 | 30.8 |  | 25.9 | 28.5 | 21.6 |  |  |
|  | 33.7 | 32.3 | 28.8 |  | 28.6 |  |  |  |
|  | 32.8 | 30.9 | 26.2 |  | 26.1 |  |  |  |
|  | 31.3 | 30.2 |  | 26.0 | 28.7 | 21.7 |  |  |
|  | 31.9 | 31.3 | 27.4 | 25.2 | 27.2 |  |  |  |
|  | 33.8 | 30.5 | 28.8 | 24.4 | 28.1 | 21.5 |  |  |
| **Среднее** | **32.383** | **31.490** | **27.566** | **25.267** | **27.322** | **21.139** |  |  |
| **Максимум** | **33.9** | **33.0** | **28.9** | **26.6** | **28.8** | **22.3** |  |  |
| **Минимум** | **30.7** | **29.8** | **26.2** | **24.2** | **25.9** | **20.1** |  |  |

**Таблица 20.** Данные по рисунку 5. Прирост длины волосовидных корней, переживших долговременное хранение в условиях содержания маннитола (50 мМ).

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| **ДИКИЙ ТИП** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 22.2 | 19.8 | 19.3 | 20.3 |  |  |  |  |
|  | 23.2 | 18.5 | 20.2 | 20.7 |  |  |  |  |
|  | 22.9 | 18.8 | 20.2 | 21.4 |  |  |  |  |
|  | 22.6 | 20.3 | 20.8 | 21.3 |  |  |  |  |
|  | 22.3 | 20.3 | 19.6 | 20.1 |  |  |  |  |
|  | 23.3 | 18.7 | 21.0 | 21.4 |  |  |  |  |
|  | 22.3 | 18.7 | 20.3 | 21.4 |  |  |  |  |
|  | 23.0 | 19.9 | 20.4 | 19.9 |  |  |  |  |
|  | 23.6 | 18.9 | 20.9 | 19.9 |  |  |  |  |
|  | 22.8 | 19.4 | 20.5 | 20.1 |  |  |  |  |
|  | 22.5 | 18.8 | 19.9 | 20.6 |  |  |  |  |
|  | 22.9 | 19.6 | 20.7 | 21.1 |  |  |  |  |
|  | 23.7 | 20.1 | 19.3 | 19.8 |  |  |  |  |
|  | 22.9 | 18.9 | 19.4 | 21.1 |  |  |  |  |
|  | 23.2 | 18.7 | 19.3 | 20.6 |  |  |  |  |
|  | 21.8 | 18.4 | 21.0 | 21.0 |  |  |  |  |
|  | 22.8 | 19.2 | 20.9 | 19.9 |  |  |  |  |
|  |  | 19.1 | 20.7 | 20.8 |  |  |  |  |
|  | 22.2 | 19.7 | 20.5 | 20.0 |  |  |  |  |
|  | 22.7 | 19.5 | 20.0 | 20.4 |  |  |  |  |
|  | 22.9 | 18.6 | 19.7 | 20.7 |  |  |  |  |
|  | 21.9 | 18.7 | 19.5 | 19.7 |  |  |  |  |
|  | 22.6 | 19.3 | 19.6 | 20.3 |  |  |  |  |
|  | 22.1 | 19.4 | 20.7 | 19.9 |  |  |  |  |
|  | 22.2 | 18.4 | 20.5 | 21.4 |  |  |  |  |
|  | 21.9 | 19.8 | 20.5 | 20.4 |  |  |  |  |
|  | 23.7 | 18.7 | 19.8 | 20.4 |  |  |  |  |
|  | 22.0 | 18.5 | 19.5 | 19.4 |  |  |  |  |
|  | 22.4 | 20.3 | 21.1 | 19.6 |  |  |  |  |
|  | 22.0 | 18.7 | 19.6 | 20.2 |  |  |  |  |
|  | 23.7 | 18.9 | 20.6 | 20.4 |  |  |  |  |
|  | 22.5 | 19.9 | 19.9 | 20.5 |  |  |  |  |
|  | 23.2 | 20.2 | 21.0 | 21.4 |  |  |  |  |
|  | 23.3 | 19.3 | 20.2 | 19.4 |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 22.3 | 20.4 | 19.2 | 21.1 |  |  |  |  |
|  | 21.8 | 18.6 | 20.4 | 20.6 |  |  |  |  |
|  | 22.7 | 18.7 | 20.8 | 19.4 |  |  |  |  |
|  | 22.8 | 18.8 | 20.4 | 21.4 |  |  |  |  |
|  | 22.2 | 20.0 | 20.7 | 19.8 |  |  |  |  |
|  | 22.3 | 19.4 | 21.0 | 20.1 |  |  |  |  |
|  | 22.1 | 18.5 | 20.1 | 20.9 |  |  |  |  |
|  | 23.5 | 19.2 | 19.5 | 20.1 |  |  |  |  |
|  | 22.2 | 19.6 | 20.1 | 19.9 |  |  |  |  |
|  | 22.2 | 18.6 | 19.3 | 19.8 |  |  |  |  |
|  | 22.2 | 19.0 | 21.1 | 21.2 |  |  |  |  |
|  | 21.6 | 19.2 | 20.4 | 19.9 |  |  |  |  |
|  | 22.2 | 18.4 | 21.1 | 20.1 |  |  |  |  |
|  | 22.2 | 19.3 | 19.5 | 20.5 |  |  |  |  |
|  | 22.3 | 18.7 | 19.2 | 19.5 |  |  |  |  |
|  | 23.7 | 19.7 | 19.8 | 20.0 |  |  |  |  |
|  | 21.9 | 18.6 | 19.5 | 20.8 |  |  |  |  |
|  | 23.0 | 20.0 | 19.7 | 21.3 |  |  |  |  |
|  | 23.0 | 19.5 | 20.9 | 20.3 |  |  |  |  |
|  | 22.4 | 18.7 | 20.4 | 21.4 |  |  |  |  |
|  | 23.6 | 20.4 | 19.6 | 20.8 |  |  |  |  |
|  | 22.5 | 19.6 | 20.9 | 21.4 |  |  |  |  |
|  | 22.8 | 19.3 | 20.7 | 20.5 |  |  |  |  |
|  | 23.3 | 19.0 | 20.4 | 21.3 |  |  |  |  |
|  | 22.5 | 19.8 | 20.2 | 20.7 |  |  |  |  |
|  | 22.6 | 20.1 | 19.6 | 20.4 |  |  |  |  |
|  | 21.6 | 18.6 | 19.5 | 20.9 |  |  |  |  |
|  | 21.8 | 20.0 | 19.7 | 19.7 |  |  |  |  |
|  | 21.8 | 20.0 | 20.0 | 20.6 |  |  |  |  |
|  | 22.7 | 19.4 | 19.9 | 19.5 |  |  |  |  |
|  | 21.9 | 19.8 | 20.9 | 20.8 |  |  |  |  |
|  | 22.5 | 18.8 | 19.7 | 19.9 |  |  |  |  |
|  | 22.4 | 19.2 | 20.1 | 21.1 |  |  |  |  |
|  | 22.4 | 19.9 | 20.0 | 20.1 |  |  |  |  |
|  | 23.2 | 19.4 | 19.3 | 20.4 |  |  |  |  |
|  | 23.8 | 19.9 | 20.1 | 19.8 |  |  |  |  |
|  | 23.5 | 18.7 | 20.1 | 19.7 |  |  |  |  |
|  | 21.7 | 19.3 | 20.9 | 19.5 |  |  |  |  |
|  | 22.6 | 18.7 | 19.7 | 21.0 |  |  |  |  |
|  | 23.3 | 18.5 | 20.5 | 21.1 |  |  |  |  |
|  | 23.3 | 19.5 | 19.8 | 21.3 |  |  |  |  |
|  | 21.9 | 19.6 | 19.6 | 21.0 |  |  |  |  |
|  | 21.7 | 19.9 | 19.5 | 21.0 |  |  |  |  |
|  | 23.1 | 20.3 | 19.7 | 20.1 |  |  |  |  |
|  | 21.9 | 19.2 | 20.0 | 19.6 |  |  |  |  |
|  | 23.2 | 19.9 | 20.1 | 20.2 |  |  |  |  |
|  | 23.7 | 19.7 | 20.0 | 19.8 |  |  |  |  |
|  | 23.3 | 19.9 | 19.7 | 20.7 |  |  |  |  |
|  | 23.8 | 19.2 | 19.6 | 20.7 |  |  |  |  |
|  | 23.5 | 19.3 | 19.8 | 20.6 |  |  |  |  |

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|  | 23.4 | 20.0 | 19.9 | 19.9 |  |  |  |  |
|  | 23.1 | 19.6 | 19.3 | 20.1 |  |  |  |  |
|  | 23.8 | 19.1 | 20.6 | 19.8 |  |  |  |  |
|  | 22.4 | 18.6 | 21.0 | 20.0 |  |  |  |  |
|  | 23.2 | 19.9 | 19.7 | 21.3 |  |  |  |  |
|  | 23.4 | 20.0 | 19.4 | 21.2 |  |  |  |  |
|  | 22.4 | 20.0 | 20.1 | 20.1 |  |  |  |  |
|  | 21.8 | 19.7 | 19.2 | 20.5 |  |  |  |  |
|  | 22.5 | 18.6 | 21.1 | 20.0 |  |  |  |  |
|  | 23.3 | 20.2 | 19.4 | 20.8 |  |  |  |  |
|  | 22.8 | 19.1 | 20.5 | 21.0 |  |  |  |  |
|  | 23.8 | 20.2 | 20.6 | 19.9 |  |  |  |  |
|  | 22.1 | 18.5 | 20.1 | 19.9 |  |  |  |  |
|  | 22.2 | 19.5 | 20.6 | 21.1 |  |  |  |  |
|  | 21.7 | 19.3 | 19.2 | 19.7 |  |  |  |  |
|  | 22.5 | 19.8 | 20.8 | 19.9 |  |  |  |  |
|  | 22.6 | 18.8 | 19.5 | 19.7 |  |  |  |  |
|  | 22.1 | 20.2 | 20.3 | 20.9 |  |  |  |  |
|  | 23.8 | 19.8 | 19.6 | 20.4 |  |  |  |  |
|  | 22.9 | 19.9 | 19.8 | 20.3 |  |  |  |  |
|  | 23.6 | 19.3 | 20.0 | 20.6 |  |  |  |  |
|  | 23.5 | 19.4 | 19.1 | 20.8 |  |  |  |  |
|  | 22.6 | 18.7 | 19.3 | 21.1 |  |  |  |  |
|  | 22.3 | 20.0 | 20.6 | 20.8 |  |  |  |  |
|  | 23.6 | 18.9 | 20.8 | 20.3 |  |  |  |  |
|  | 23.2 | 19.8 | 19.7 | 19.9 |  |  |  |  |
|  | 23.1 | 20.0 | 19.7 | 19.5 |  |  |  |  |
|  | 22.6 | 19.9 | 19.1 | 20.2 |  |  |  |  |
|  | 22.0 |  | 19.8 | 21.4 |  |  |  |  |
|  | 23.4 | 18.7 | 19.3 | 19.7 |  |  |  |  |
|  | 22.5 |  | 19.5 | 20.0 |  |  |  |  |
|  | 23.8 | 18.9 | 19.5 | 21.2 |  |  |  |  |
|  | 22.0 | 20.1 | 20.6 | 19.8 |  |  |  |  |
|  | 22.9 | 19.8 | 19.8 | 19.7 |  |  |  |  |
|  | 22.4 | 18.6 | 19.3 | 20.4 |  |  |  |  |
|  | 22.9 | 19.5 | 19.6 | 21.3 |  |  |  |  |
|  | 23.0 |  | 19.1 | 20.9 |  |  |  |  |
|  | 22.9 | 19.2 | 20.1 | 20.7 |  |  |  |  |
|  | 22.7 | 19.4 | 19.8 | 20.7 |  |  |  |  |
|  | 22.6 | 20.1 | 21.0 | 20.9 |  |  |  |  |
|  | 21.9 |  | 20.5 | 20.0 |  |  |  |  |
|  | 22.4 | 19.2 | 20.2 | 21.2 |  |  |  |  |
|  | 21.6 | 19.3 | 20.3 | 21.4 |  |  |  |  |
|  | 23.4 | 19.1 | 20.9 | 21.4 |  |  |  |  |
| **Среднее** | **22.692** | **19.352** | **20.062** | **20.449** |  |  |  |  |
| **Максимум** | **23.8** | **20.4** | **21.1** | **21.4** |  |  |  |  |
| **Минимум** | **21.6** | **18.4** | **19.1** | **19.4** |  |  |  |  |
| **L1** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |

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|  | 35.7 |  | 34.9 | 33.2 | 23.8 |  |  |  |
|  | 34.9 | 27.4 | 35.8 | 32.1 |  |  |  |  |
|  | 37.9 |  | 34.2 | 33.2 |  |  |  |  |
|  | 36.2 | 29.2 |  | 32.6 |  |  |  |  |
|  | 37.5 | 28.0 | 33.3 | 32.1 | 23.6 |  |  |  |
|  | 37.7 | 27.7 | 34.4 | 30.9 |  |  |  |  |
|  | 36.0 |  | 34.9 | 31.6 | 23.5 |  |  |  |
|  | 35.0 | 28.0 | 34.7 | 30.8 |  |  |  |  |
|  | 36.0 | 29.4 | 33.5 | 32.3 | 22.0 |  |  |  |
|  | 36.3 | 27.4 |  |  | 22.5 |  |  |  |
|  | 34.8 |  | 35.9 | 32.7 |  |  |  |  |
|  | 37.2 | 29.2 | 33.9 | 30.8 | 23.5 |  |  |  |
|  | 36.1 | 28.7 | 34.1 | 33.7 |  |  |  |  |
|  | 37.3 |  | 33.5 | 30.8 |  |  |  |  |
|  | 37.9 | 27.3 | 33.9 | 33.6 | 23.9 |  |  |  |
|  | 38.2 |  | 34.3 | 32.3 | 23.8 |  |  |  |
|  | 36.0 | 29.6 |  |  |  |  |  |  |
|  | 37.6 | 27.7 | 35.5 | 32.3 | 22.3 |  |  |  |
|  | 35.2 |  | 35.4 | 32.7 | 23.3 |  |  |  |
|  | 36.0 | 27.1 | 33.5 | 33.4 | 23.3 |  |  |  |
|  | 38.1 | 29.1 | 34.5 | 32.4 |  |  |  |  |
|  | 37.5 |  | 34.7 | 32.6 | 22.2 |  |  |  |
|  | 37.3 | 29.7 | 34.4 | 30.6 | 23.9 |  |  |  |
|  | 35.2 | 27.6 | 34.2 | 31.7 |  |  |  |  |
|  | 36.0 | 28.3 | 34.3 | 31.0 | 22.1 |  |  |  |
|  | 38.1 | 29.0 | 33.2 | 30.8 | 23.3 |  |  |  |
|  | 35.1 |  | 33.6 | 33.2 |  |  |  |  |
|  | 37.2 | 29.4 | 33.5 | 33.6 | 22.4 |  |  |  |
|  | 35.3 |  | 35.9 | 31.6 | 23.3 |  |  |  |
|  | 35.6 | 29.8 | 36.3 | 33.6 |  |  |  |  |
|  | 35.6 |  | 34.0 | 31.6 |  |  |  |  |
|  | 36.0 | 28.6 | 35.5 | 33.3 |  |  |  |  |
|  | 37.9 | 29.8 | 32.9 | 30.9 | 24.1 |  |  |  |
|  | 37.2 |  | 35.7 | 31.7 | 23.8 |  |  |  |
|  | 37.6 | 27.1 | 35.3 | 33.6 |  |  |  |  |
|  | 34.8 |  | 35.7 |  | 23.3 |  |  |  |
|  | 37.9 | 28.1 |  | 33.2 |  |  |  |  |
|  | 35.0 | 28.3 | 33.5 | 33.3 |  |  |  |  |
|  | 37.3 | 28.0 | 36.2 | 32.2 |  |  |  |  |
|  | 34.8 |  | 33.9 | 31.5 | 21.8 |  |  |  |
|  | 36.2 |  | 33.5 | 33.7 | 23.3 |  |  |  |
|  | 36.5 | 27.9 | 35.4 |  |  |  |  |  |
|  | 38.1 | 27.2 |  | 32.4 |  |  |  |  |
|  | 34.9 | 28.0 | 35.9 | 33.0 | 21.9 |  |  |  |
|  | 36.0 | 27.2 |  | 33.6 | 22.4 |  |  |  |
|  | 35.1 |  | 33.3 | 33.6 | 23.4 |  |  |  |
|  | 35.7 | 27.8 | 35.0 | 33.7 | 22.2 |  |  |  |
|  | 34.7 | 29.4 | 35.7 | 30.8 |  |  |  |  |
|  | 35.2 | 28.7 | 33.9 | 31.7 | 23.5 |  |  |  |
|  | 36.9 | 28.2 |  |  | 23.5 |  |  |  |

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|  | 35.0 | 29.7 | 34.6 | 30.6 |  |  |  |  |
|  | 35.8 | 27.1 | 35.9 | 32.9 | 22.7 |  |  |  |
|  | 37.7 |  | 35.8 | 30.8 |  |  |  |  |
|  | 37.6 | 27.3 | 33.9 | 30.9 |  |  |  |  |
|  | 37.5 | 27.7 | 33.6 | 32.7 | 23.0 |  |  |  |
|  | 35.6 | 28.7 | 34.5 | 31.1 |  |  |  |  |
|  | 36.2 | 27.7 | 34.2 | 32.2 | 21.8 |  |  |  |
|  | 37.9 | 27.5 |  | 31.2 | 23.5 |  |  |  |
|  | 35.4 | 28.6 | 35.2 | 33.2 |  |  |  |  |
|  | 35.2 |  | 33.6 | 33.3 | 22.9 |  |  |  |
|  | 35.4 | 27.1 | 34.3 | 31.3 |  |  |  |  |
|  | 35.0 | 28.5 | 35.0 |  | 24.1 |  |  |  |
|  | 34.9 | 29.1 |  | 32.3 |  |  |  |  |
|  | 36.4 | 27.9 | 33.6 | 31.2 | 23.6 |  |  |  |
|  | 37.0 |  | 34.9 | 32.2 |  |  |  |  |
|  | 37.7 | 29.4 | 34.1 | 31.8 |  |  |  |  |
|  | 35.0 | 27.3 | 34.3 |  | 23.7 |  |  |  |
|  | 34.8 | 27.8 | 35.9 | 32.0 |  |  |  |  |
|  | 35.2 | 27.9 |  | 30.8 | 23.5 |  |  |  |
|  | 34.9 | 29.8 | 34.1 | 32.3 | 24.1 |  |  |  |
|  | 36.7 |  | 33.6 | 30.6 |  |  |  |  |
|  | 36.0 | 28.8 | 35.6 | 33.1 | 23.5 |  |  |  |
|  | 35.7 | 27.7 | 36.0 | 33.3 | 22.0 |  |  |  |
|  | 37.0 | 29.3 | 35.8 |  |  |  |  |  |
|  | 37.0 | 27.8 |  | 31.5 | 23.1 |  |  |  |
|  | 38.2 | 27.3 | 36.2 | 32.3 | 21.9 |  |  |  |
|  | 36.1 | 27.6 | 35.8 | 31.2 |  |  |  |  |
|  | 38.1 | 29.5 | 36.0 | 31.3 | 24.0 |  |  |  |
|  | 35.7 |  |  | 30.8 |  |  |  |  |
|  | 35.3 | 28.4 | 34.8 | 32.4 | 23.0 |  |  |  |
|  | 36.9 | 29.5 | 35.4 | 30.7 |  |  |  |  |
|  | 36.5 | 29.1 |  |  | 23.7 |  |  |  |
|  | 37.7 |  | 35.4 | 33.1 | 22.5 |  |  |  |
|  | 35.7 | 27.5 | 35.2 | 30.6 | 23.4 |  |  |  |
|  | 36.3 | 29.5 | 36.2 | 31.3 |  |  |  |  |
|  | 36.5 | 29.9 |  | 31.5 | 22.8 |  |  |  |
|  | 35.9 | 28.6 |  | 33.5 |  |  |  |  |
|  | 37.4 | 29.6 | 35.8 | 32.1 | 23.1 |  |  |  |
|  | 38.2 |  | 33.5 | 30.7 |  |  |  |  |
|  | 36.1 | 28.8 | 35.0 | 31.8 | 23.7 |  |  |  |
|  | 34.8 | 29.2 | 34.4 |  | 23.7 |  |  |  |
|  | 38.1 |  | 34.9 | 32.5 |  |  |  |  |
|  | 35.5 | 29.9 | 34.3 | 33.0 | 23.1 |  |  |  |
|  | 36.4 | 27.0 |  | 32.4 | 21.8 |  |  |  |
|  | 35.8 | 28.0 | 33.1 | 31.5 |  |  |  |  |
|  | 36.5 | 27.9 | 32.9 | 30.5 | 22.2 |  |  |  |
|  | 37.9 | 28.2 | 34.0 | 33.5 |  |  |  |  |
|  | 34.9 | 28.3 |  | 31.8 |  |  |  |  |
|  | 37.3 | 29.4 | 35.2 | 31.5 |  |  |  |  |
|  | 37.9 |  |  | 30.5 | 21.9 |  |  |  |

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|  | 37.2 |  | 35.7 | 32.9 | 23.2 |  |  |  |
|  | 37.2 | 29.0 | 35.1 |  | 24.1 |  |  |  |
|  | 37.1 | 29.3 | 34.5 | 32.9 | 24.0 |  |  |  |
|  | 38.0 |  | 34.4 | 33.1 | 22.8 |  |  |  |
|  | 36.8 | 27.6 | 35.0 |  | 24.1 |  |  |  |
|  | 35.9 | 29.1 | 33.6 | 32.1 | 22.4 |  |  |  |
|  | 36.5 | 28.1 | 34.9 | 33.6 | 22.3 |  |  |  |
|  | 36.2 | 28.3 | 34.6 | 32.2 | 22.4 |  |  |  |
|  | 35.2 | 28.2 | 36.2 | 30.9 | 23.2 |  |  |  |
|  | 37.1 | 29.4 | 33.4 | 31.8 | 22.6 |  |  |  |
|  | 37.9 | 27.7 |  | 33.0 | 22.4 | 2.0 |  |  |
|  | 36.0 | 29.5 | 36.3 | 33.6 | 22.5 |  |  |  |
|  | 35.6 | 27.5 | 33.9 | 32.9 | 22.9 |  |  |  |
|  | 36.2 | 27.4 |  |  |  |  |  |  |
|  | 37.5 |  | 36.1 | 30.8 | 21.9 |  |  |  |
|  | 35.9 | 28.3 | 35.8 | 32.6 | 22.1 |  |  |  |
|  |  | 29.8 | 36.0 | 33.0 | 23.1 |  |  |  |
|  | 37.8 | 29.0 |  | 30.9 | 24.0 |  |  |  |
|  | 37.8 | 29.7 | 34.0 | 30.9 | 23.2 |  |  |  |
|  | 37.8 | 29.3 | 33.4 | 30.8 |  |  |  |  |
|  | 35.8 | 28.8 |  |  | 23.4 |  |  |  |
|  | 35.6 | 29.0 | 34.5 | 31.5 | 23.7 |  |  |  |
|  | 37.9 | 29.6 | 35.8 | 31.1 | 22.6 |  |  |  |
|  | 38.0 | 28.3 | 33.5 | 44.2 | 22.0 |  |  |  |
|  | 37.5 | 27.3 | 34.9 | 31.8 |  |  |  |  |
|  | 37.8 | 29.1 |  |  | 22.6 |  |  |  |
|  | 35.5 | 27.9 | 34.1 | 30.6 | 23.1 |  |  |  |
|  | 34.9 | 28.9 | 36.0 | 31.0 | 22.6 |  |  |  |
| **Среднее** | **36.448** | **28.450** | **34.702** | **32.173** | **23.012** |  |  |  |
| **Максимум** | **38.2** | **29.9** | **36.3** | **44.2** | **24.1** |  |  |  |
| **Минимум** | **34.7** | **27.0** | **32.9** | **30.5** | **21.8** |  |  |  |
| **L2** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 34.8 | 31.6 | 23.1 | 20.7 | 19.1 | 19.3 |  |  |
|  | 32.2 |  | 23.3 | 21.1 | 9.4 | 19.3 |  |  |
|  | 33.1 | 29.3 | 23.3 |  |  |  |  |  |
|  | 34.6 | 30.5 |  | 20.7 |  | 19.2 |  |  |
|  | 35.0 | 31.7 | 24.9 | 20.9 | 17.8 |  |  |  |
|  | 34.5 | 31.4 | 24.5 | 20.3 |  |  |  |  |
|  | 34.5 | 29.9 |  |  |  |  |  |  |
|  | 32.3 | 32.0 | 25.0 |  | 17.8 |  |  |  |
|  | 32.3 |  | 23.5 | 19.2 |  | 20.0 |  |  |
|  | 34.7 | 31.1 | 24.8 | 20.6 |  |  |  |  |
|  | 32.5 | 29.7 |  |  | 17.9 |  |  |  |
|  | 35.0 | 30.5 |  | 20.3 |  |  |  |  |
|  | 33.6 |  | 25.0 |  |  | 19.0 |  |  |
|  | 35.1 | 31.5 |  |  | 18.4 |  |  |  |
|  | 33.5 | 29.3 | 25.1 | 19.4 |  | 20.3 |  |  |
|  | 32.8 | 31.1 |  | 20.2 | 14.5 |  |  |  |

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|  | 32.6 | 31.8 | 24.0 |  | 19.0 |  |  |  |
|  | 33.4 | 31.5 | 25.2 |  |  |  |  |  |
|  | 32.2 |  | 24.7 | 19.6 | 18.1 |  |  |  |
|  | 33.3 | 31.1 | 23.9 |  |  |  |  |  |
|  | 34.4 | 30.1 |  | 21.0 | 19.0 |  |  |  |
|  | 32.9 | 29.6 | 24.5 | 21.1 |  |  |  |  |
|  | 32.7 | 30.8 | 24.8 |  |  |  |  |  |
|  | 34.4 | 29.9 |  | 19.7 |  | 19.5 |  |  |
|  | 34.6 | 30.0 | 23.9 | 19.5 | 19.0 |  |  |  |
|  | 33.1 | 30.7 | 23.4 | 20.1 |  |  |  |  |
|  | 33.6 | 31.9 | 23.7 |  | 17.8 | 18.8 |  |  |
|  | 33.4 | 31.0 |  |  | 18.5 |  |  |  |
|  | 32.6 | 31.0 | 23.6 |  |  |  |  |  |
|  | 32.2 | 30.8 |  | 20.5 |  |  |  |  |
|  | 32.9 | 30.4 |  |  | 18.2 | 18.8 |  |  |
|  | 34.6 | 31.3 | 24.2 | 20.9 |  | 18.7 |  |  |
|  | 34.9 | 30.4 |  | 20.2 | 18.1 |  |  |  |
|  | 33.2 | 30.6 | 25.1 |  |  |  |  |  |
|  | 32.3 | 32.0 |  | 19.4 | 17.6 |  |  |  |
|  | 33.8 | 29.9 | 23.9 | 19.5 |  | 18.9 |  |  |
|  | 33.6 | 29.4 |  | 20.5 | 18.8 |  |  |  |
|  | 33.2 | 30.6 | 24.6 |  | 18.4 |  |  |  |
|  | 35.1 | 31.1 | 24.5 | 20.3 | 18.2 |  |  |  |
|  | 34.1 |  |  |  |  |  |  |  |
|  | 34.2 | 31.1 | 25.3 |  |  |  |  |  |
|  | 32.7 | 29.3 |  | 19.2 | 17.5 | 19.1 |  |  |
|  | 34.9 | 31.9 |  | 19.7 | 17.8 |  |  |  |
|  | 33.8 | 29.1 | 24.2 |  |  |  |  |  |
|  | 32.3 | 29.4 | 25.1 | 20.6 | 19.1 | 18.9 |  |  |
|  | 34.7 | 31.8 | 25.3 | 20.8 |  |  |  |  |
|  | 34.5 | 31.8 | 24.8 | 19.8 |  |  |  |  |
|  | 32.7 | 29.9 |  |  | 19.1 |  |  |  |
|  | 34.6 | 29.3 | 24.5 | 20.4 |  | 19.7 |  |  |
|  | 35.0 | 29.8 |  | 20.8 | 17.6 |  |  |  |
|  | 33.1 | 30.7 | 24.2 |  |  |  |  |  |
|  | 34.6 | 29.9 |  | 20.8 | 17.7 |  |  |  |
|  | 34.0 | 30.3 | 23.4 |  | 17.5 |  |  |  |
|  | 33.2 | 31.7 |  | 20.2 |  |  |  |  |
|  | 32.8 | 30.5 | 24.1 | 19.2 | 17.6 | 18.7 |  |  |
|  | 32.2 | 29.2 | 23.0 | 20.6 | 19.0 |  |  |  |
|  | 32.4 | 29.5 | 24.0 | 21.1 | 18.8 |  |  |  |
|  | 33.0 |  | 24.4 |  |  |  |  |  |
|  | 33.1 | 31.4 |  | 20.3 |  | 18.8 |  |  |
|  | 32.3 | 31.6 | 23.7 |  |  |  |  |  |
|  | 34.6 | 30.0 |  | 19.9 | 18.3 |  |  |  |
|  | 35.2 |  | 23.2 | 21.2 | 18.6 |  |  |  |
|  | 33.0 | 31.7 | 24.6 | 20.9 |  | 20.3 |  |  |
|  | 32.9 | 29.7 |  |  |  |  |  |  |
|  | 34.8 | 32.0 | 24.4 |  | 18.6 |  |  |  |
|  | 34.1 | 30.4 | 24.6 |  |  | 19.1 |  |  |

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|  | 33.1 | 30.7 | 23.3 | 20.8 | 19.1 |  |  |  |
|  | 33.5 | 30.2 |  |  |  |  |  |  |
|  | 34.9 | 29.5 | 25.2 | 19.7 |  |  |  |  |
|  | 34.4 | 29.2 | 23.7 |  | 18.3 | 19.4 |  |  |
|  | 35.0 | 31.3 | 25.2 |  |  |  |  |  |
|  | 33.9 | 31.4 | 23.2 | 19.2 |  |  |  |  |
|  | 35.2 | 32.0 | 23.4 | 19.5 |  |  |  |  |
|  | 33.2 | 29.7 | 24.3 |  |  |  |  |  |
|  | 33.1 | 31.0 |  | 21.0 | 22.4 | 19.7 |  |  |
|  | 32.6 | 30.5 | 24.6 | 20.4 | 17.4 |  |  |  |
|  | 33.5 | 31.8 |  | 19.9 |  | 19.6 |  |  |
|  | 32.4 | 30.2 | 25.0 |  |  |  |  |  |
|  | 34.3 | 30.8 |  | 19.4 | 18.3 |  |  |  |
|  | 32.0 | 30.5 |  |  |  | 19.2 |  |  |
|  | 34.2 | 31.8 | 23.4 | 21.0 |  |  |  |  |
|  | 33.0 | 30.7 | 24.9 | 19.7 |  |  |  |  |
|  | 32.4 | 30.1 |  |  | 20.3 |  |  |  |
|  | 34.9 |  | 25.3 | 20.6 | 18.6 |  |  |  |
|  | 32.7 | 30.4 | 24.2 |  |  |  |  |  |
|  | 34.3 | 30.6 | 24.6 | 21.1 |  | 19.0 |  |  |
|  | 33.3 | 31.4 |  |  |  |  |  |  |
|  | 32.0 | 29.1 |  | 21.1 | 18.6 |  |  |  |
|  | 32.0 |  | 23.7 | 20.2 |  |  |  |  |
|  | 34.5 | 30.5 | 24.2 | 20.3 |  | 19.5 |  |  |
|  | 34.4 | 31.9 | 25.2 | 14.4 | 18.3 |  |  |  |
|  | 35.2 | 29.6 | 23.0 | 20.1 |  |  |  |  |
|  | 34.3 | 31.7 | 23.9 |  | 18.8 |  |  |  |
|  | 34.6 | 31.4 |  | 19.6 |  | 18.6 |  |  |
|  | 32.2 | 31.4 | 25.3 | 19.8 |  |  |  |  |
|  | 34.3 | 30.1 | 23.1 |  | 18.4 |  |  |  |
|  | 34.1 | 32.0 | 25.2 | 20.6 |  | 20.2 |  |  |
|  | 34.7 | 30.5 |  |  | 18.7 |  |  |  |
|  | 34.6 |  | 23.3 | 20.4 | 19.0 |  |  |  |
|  | 32.5 | 30.9 | 23.8 |  |  |  |  |  |
|  | 33.7 | 30.3 | 23.8 | 19.4 |  | 19.2 |  |  |
|  | 35.1 | 29.9 |  |  |  |  |  |  |
|  | 34.5 | 29.7 | 24.4 |  | 18.1 |  |  |  |
|  | 33.2 |  |  | 20.3 |  |  |  |  |
|  | 34.6 | 31.1 | 24.1 | 21.1 | 18.2 | 19.1 |  |  |
|  | 34.4 | 31.4 | 24.3 | 20.1 | 19.1 |  |  |  |
|  | 34.8 | 29.4 |  |  | 18.7 |  |  |  |
|  | 34.3 |  | 25.3 | 20.9 |  |  |  |  |
|  | 34.1 | 30.6 | 24.2 |  |  |  |  |  |
|  | 32.6 | 29.6 |  | 20.2 | 17.5 | 19.5 |  |  |
|  | 35.2 | 29.8 | 25.0 |  |  |  |  |  |
|  | 33.3 | 30.3 | 25.3 | 21.0 | 18.3 |  |  |  |
|  | 32.2 |  |  | 20.6 |  |  |  |  |
|  | 33.4 | 31.4 | 23.8 | 19.2 | 17.7 |  |  |  |
|  | 32.7 |  | 23.6 | 20.8 |  |  |  |  |
|  | 33.2 | 31.3 |  |  |  | 20.3 |  |  |

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|  | 34.9 | | 30.5 | 25.1 |  | 19.8 |  |  |  |
|  | 33.1 | | 30.1 | 23.4 |  |  |  |  |  |
|  | 34.7 | | 32.1 | 23.5 |  |  |  |  |  |
|  | 32.8 | | 30.6 | 24.0 |  |  |  |  |  |
|  | 32.5 | |  |  | 20.5 | 17.6 | 19.9 |  |  |
|  | 32.6 | | 29.1 | 24.3 |  | 18.6 |  |  |  |
|  | 34.1 | | 31.9 | 24.9 | 20.9 |  |  |  |  |
|  | 32.0 | | 31.8 |  |  | 17.6 |  |  |  |
|  | 35.2 | | 31.6 | 24.3 |  |  |  |  |  |
|  | 32.1 | | 29.9 | 24.6 | 17.5 |  |  |  |  |
|  | 32.9 | | 31.9 | 23.6 |  |  | 20.4 |  |  |
|  | 32.9 | | 30.7 | 24.5 | 19.8 | 18.4 |  |  |  |
| **Среднее** | **33.624** | | **30.663** | **24.257** | **20.163** | **18.211** | **19.381** |  |  |
| **Максимум** | **35.2** | | **32.1** | **25.3** | **21.2** | **22.4** | **20.4** |  |  |
| **Минимум** | **32.0** | | **29.1** | **23.0** | **14.4** | **9.4** | **18.6** |  |  |
| **L3** | | | | | | | | | |
|  | | **0**  **дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | | 43.3 | 30.4 | 35.0 | 32.0 | 32.4 |  |  |  |
|  | | 39.9 | 29.3 |  | 29.7 | 30.4 |  |  |  |
|  | | 43.3 |  |  |  |  |  |  |  |
|  | | 39.6 | 30.4 | 35.3 | 30.6 |  |  |  |  |
|  | | 40.1 |  |  |  | 31.5 |  |  |  |
|  | | 40.9 | 28.2 | 33.5 | 29.9 |  |  |  |  |
|  | | 42.0 | 29.5 | 34.8 | 31.2 |  |  |  |  |
|  | | 40.7 | 27.9 | 33.5 |  |  |  |  |  |
|  | | 42.5 |  |  | 29.2 |  |  |  |  |
|  | | 39.8 | 27.9 | 33.2 |  |  |  |  |  |
|  | | 42.0 | 29.5 |  | 30.2 |  |  |  |  |
|  | | 41.8 |  | 34.0 | 30.7 | 31.6 |  |  |  |
|  | | 42.8 | 29.4 |  |  |  |  |  |  |
|  | | 43.5 |  | 36.2 | 31.9 |  |  |  |  |
|  | | 43.5 | 28.7 | 35.0 | 30.3 |  |  |  |  |
|  | | 40.7 | 28.3 |  |  |  |  |  |  |
|  | | 40.0 |  | 34.5 | 30.3 |  |  |  |  |
|  | | 43.4 | 29.1 |  | 31.5 |  |  |  |  |
|  | | 42.0 |  |  | 30.7 | 30.7 |  |  |  |
|  | | 39.6 |  | 36.4 |  |  |  |  |  |
|  | | 41.9 |  |  | 29.4 |  |  |  |  |
|  | | 40.3 | 30.2 | 36.4 | 30.2 |  |  |  |  |
|  | | 39.7 | 27.9 | 35.5 | 31.3 | 32.6 |  |  |  |
|  | | 42.9 | 28.4 |  |  |  |  |  |  |
|  | | 42.3 |  | 34.1 |  | 31.6 |  |  |  |
|  | | 42.5 |  |  | 29.6 |  |  |  |  |
|  | | 43.4 |  | 35.8 | 30.1 |  |  |  |  |
|  | | 40.5 |  | 34.6 |  |  |  |  |  |
|  | | 42.6 |  |  | 31.9 | 30.2 |  |  |  |
|  | | 42.4 | 28.0 | 34.6 |  |  |  |  |  |
|  | | 41.0 | 28.6 | 35.8 | 31.5 |  |  |  |  |
|  | | 43.3 | 28.8 | 33.9 | 30.1 |  |  |  |  |

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|  | 40.7 |  |  |  | 32.3 |  |  |  |
|  | 42.9 | 27.7 | 34.1 | 30.8 |  |  |  |  |
|  | 40.7 | 27.8 |  | 30.6 | 31.1 |  |  |  |
|  | 41.4 |  | 34.2 |  |  |  |  |  |
|  | 41.3 |  |  | 29.3 |  |  |  |  |
|  | 40.4 | 28.3 | 33.2 | 30.0 |  |  |  |  |
|  | 42.4 | 27.6 | 34.0 |  | 32.5 |  |  |  |
|  | 41.4 |  | 36.0 | 31.6 |  |  |  |  |
|  | 42.2 | 27.8 | 34.6 |  | 31.0 |  |  |  |
|  | 40.0 | 27.5 |  | 30.6 |  |  |  |  |
|  | 40.4 |  | 35.6 | 29.7 | 31.1 |  |  |  |
|  | 43.0 | 29.8 | 35.1 |  |  |  |  |  |
|  | 39.7 | 28.7 | 35.8 | 32.0 | 30.7 |  |  |  |
|  | 43.4 | 29.6 |  |  |  |  |  |  |
|  | 42.6 |  | 35.6 | 30.4 |  |  |  |  |
|  | 42.6 | 29.8 |  | 31.0 |  |  |  |  |
|  | 42.3 | 29.3 |  |  | 32.9 |  |  |  |
|  | 41.7 | 27.7 | 35.9 |  |  |  |  |  |
|  | 41.1 | 28.3 | 34.7 | 30.6 |  |  |  |  |
|  | 41.1 | 29.9 | 35.1 | 31.8 | 30.0 |  |  |  |
|  | 43.8 | 28.9 | 36.0 |  | 31.6 |  |  |  |
|  | 40.1 | 28.7 | 33.4 | 30.8 |  |  |  |  |
|  | 42.0 | 29.7 |  | 31.7 | 32.8 |  |  |  |
|  | 39.7 |  | 36.1 |  |  |  |  |  |
|  | 42.9 |  | 33.9 | 31.6 | 33.0 |  |  |  |
|  | 42.6 |  |  |  |  |  |  |  |
|  | 40.7 | 29.5 | 34.2 | 31.7 | 30.9 |  |  |  |
|  | 43.2 |  | 33.8 | 32.1 |  |  |  |  |
|  | 41.0 | 29.7 |  |  |  |  |  |  |
|  | 40.5 | 30.3 | 36.0 | 31.8 | 22.1 |  |  |  |
|  | 42.3 |  | 35.2 |  | 30.1 |  |  |  |
|  | 41.8 | 28.3 | 34.6 | 31.1 | 32.2 |  |  |  |
|  | 40.2 | 28.3 | 35.5 | 29.6 |  |  |  |  |
|  | 43.2 | 29.9 |  | 32.0 |  |  |  |  |
|  | 43.4 | 29.1 |  | 30.5 | 30.9 |  |  |  |
|  | 43.1 |  | 34.1 |  |  |  |  |  |
|  | 43.3 | 29.5 |  | 29.7 | 32.6 |  |  |  |
|  | 41.3 |  | 34.5 |  |  |  |  |  |
|  | 41.1 | 28.6 | 36.0 | 31.3 |  |  |  |  |
|  | 42.8 |  | 35.0 |  | 30.5 |  |  |  |
|  | 40.3 |  |  |  |  |  |  |  |
|  | 42.1 | 29.0 | 33.7 |  | 31.5 |  |  |  |
|  | 43.7 |  |  |  |  |  |  |  |
|  | 40.1 | 28.2 |  |  | 31.6 |  |  |  |
|  | 39.9 |  | 36.2 | 31.6 |  |  |  |  |
|  | 40.5 |  | 33.1 |  | 30.5 |  |  |  |
|  | 41.3 | 29.1 | 36.2 | 31.6 | 36.5 |  |  |  |
|  | 41.3 |  | 34.5 |  |  |  |  |  |
|  | 42.1 | 30.0 | 33.3 |  |  |  |  |  |
|  | 41.4 | 28.3 | 34.6 | 31.4 |  |  |  |  |

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|  | 43.1 | 30.2 |  |  |  |  |  |  |
|  | 42.9 | 28.3 | 35.5 | 29.5 | 32.4 |  |  |  |
|  | 40.8 |  | 34.2 |  | 32.5 |  |  |  |
|  | 40.8 | 28.3 |  | 31.0 | 30.2 |  |  |  |
|  | 40.5 | 28.5 | 33.4 |  | 32.8 |  |  |  |
|  | 43.7 |  |  |  |  |  |  |  |
|  | 40.9 |  | 34.7 | 29.2 | 31.5 |  |  |  |
|  | 40.1 | 28.7 |  | 31.8 |  |  |  |  |
|  | 42.1 |  | 35.6 |  |  |  |  |  |
|  | 42.1 | 27.8 | 34.2 | 29.5 |  |  |  |  |
|  | 39.9 | 28.2 | 36.0 |  | 33.0 |  |  |  |
|  | 42.1 |  |  |  |  |  |  |  |
|  | 43.7 | 28.3 | 36.0 | 30.6 | 32.8 |  |  |  |
|  | 40.7 |  | 34.0 |  |  |  |  |  |
|  | 40.6 |  | 35.1 | 30.7 |  |  |  |  |
|  | 42.6 |  |  |  | 31.8 |  |  |  |
|  | 41.4 | 29.6 | 34.1 | 32.1 | 31.2 |  |  |  |
|  | 43.2 |  |  |  |  |  |  |  |
|  | 42.3 | 29.5 | 35.6 |  |  |  |  |  |
|  | 39.8 |  |  | 31.3 | 31.0 |  |  |  |
|  | 40.9 |  | 36.4 |  | 39.9 |  |  |  |
|  | 39.6 | 28.0 | 34.1 |  |  |  |  |  |
|  | 43.6 | 27.6 |  | 31.1 |  |  |  |  |
|  | 39.7 |  | 35.9 |  |  |  |  |  |
|  | 40.9 |  |  | 30.4 | 31.3 |  |  |  |
|  | 39.7 |  | 33.3 |  |  |  |  |  |
|  | 42.2 |  | 36.1 |  | 32.1 |  |  |  |
|  | 43.2 | 28.1 |  | 31.6 | 31.6 |  |  |  |
|  | 40.0 |  | 34.4 |  | 30.4 |  |  |  |
|  | 42.8 | 28.8 | 33.2 |  | 32.9 |  |  |  |
|  | 41.3 |  | 35.1 | 30.8 |  |  |  |  |
|  | 41.8 | 28.7 |  |  |  |  |  |  |
|  | 40.0 |  | 34.7 | 29.6 | 32.2 |  |  |  |
|  | 43.3 | 29.1 | 33.9 |  | 31.2 |  |  |  |
|  | 41.3 | 27.7 | 33.1 |  |  |  |  |  |
|  | 41.4 |  | 36.0 |  | 33.1 |  |  |  |
|  | 41.7 | 29.5 |  | 31.4 |  |  |  |  |
|  | 41.6 |  | 33.7 |  |  |  |  |  |
|  | 42.1 |  |  | 29.7 | 32.3 |  |  |  |
|  | 43.3 | 29.7 | 35.6 |  | 25.4 |  |  |  |
|  | 41.4 | 27.8 |  | 31.0 | 32.6 |  |  |  |
|  | 41.7 |  | 36.3 |  | 32.1 |  |  |  |
|  | 41.5 |  | 34.5 | 29.8 |  |  |  |  |
|  | 40.4 | 28.7 | 34.4 | 30.6 |  |  |  |  |
|  | 40.8 |  |  |  | 30.4 |  |  |  |
|  | 39.7 | 28.7 | 34.1 | 30.0 | 31.4 |  | 1.5 |  |
| **Среднее** | **41.607** | **28.802** | **34.796** | **30.747** | **31.591** |  |  |  |
| **Максимум** | **43.8** | **30.4** | **36.4** | **32.1** | **39.9** |  |  |  |
| **Минимум** | **39.6** | **27.5** | **33.1** | **29.2** | **22.1** |  |  |  |
| **L4** | | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 30.9 | 34.4 | 38.1 |  |  |  |  |  |
|  | 32.1 | 32.6 | 38.4 |  |  |  |  |  |
|  | 31.2 | 33.7 | 38.9 |  |  |  |  |  |
|  | 31.1 |  | 36.8 |  |  |  |  |  |
|  | 33.6 | 32.8 |  |  |  |  |  |  |
|  | 30.8 | 34.9 | 37.3 |  |  |  |  |  |
|  | 33.7 | 32.7 | 37.4 |  |  |  |  |  |
|  | 33.0 | 33.3 | 37.8 |  |  |  |  |  |
|  | 31.6 | 33.2 | 38.8 |  |  |  |  |  |
|  | 31.9 |  |  |  |  |  |  |  |
|  | 32.6 | 33.3 | 36.2 |  |  |  |  |  |
|  | 33.4 | 32.0 | 38.2 |  |  |  |  |  |
|  | 33.8 | 34.1 | 37.8 |  |  |  |  |  |
|  | 32.0 | 33.7 | 37.4 |  |  |  |  |  |
|  | 30.7 |  | 36.2 |  |  |  |  |  |
|  | 32.5 | 34.6 | 35.4 |  |  |  |  |  |
|  | 31.2 | 32.0 | 37.4 |  |  |  |  |  |
|  | 31.1 | 32.9 | 35.6 |  |  |  |  |  |
|  | 30.8 | 32.7 | 36.2 |  |  |  |  |  |
|  | 32.1 |  | 38.4 |  |  |  |  |  |
|  | 33.2 | 35.1 |  |  |  |  |  |  |
|  | 32.2 | 33.9 | 37.8 |  |  |  |  |  |
|  | 33.0 | 32.1 | 38.2 |  |  |  |  |  |
|  | 32.4 | 32.8 |  |  |  |  |  |  |
|  | 32.3 | 33.5 | 37.6 |  |  |  |  |  |
|  | 31.3 | 33.5 | 36.0 |  |  |  |  |  |
|  | 32.4 | 33.5 | 38.0 |  |  |  |  |  |
|  | 31.8 | 34.0 | 36.8 |  |  |  |  |  |
|  | 33.8 | 34.6 | 35.4 |  |  |  |  |  |
|  | 33.5 |  | 37.9 |  |  |  |  |  |
|  | 32.1 | 34.2 | 37.0 |  |  |  |  |  |
|  | 31.9 |  | 35.4 |  |  |  |  |  |
|  | 31.3 | 32.5 | 38.0 |  |  |  |  |  |
|  | 33.5 | 32.5 | 35.6 |  |  |  |  |  |
|  | 32.1 | 34.4 | 38.9 |  |  |  |  |  |
|  | 33.8 | 32.0 | 37.1 |  |  |  |  |  |
|  | 31.3 | 34.6 | 36.2 |  |  |  |  |  |
|  | 32.2 |  | 37.8 |  |  |  |  |  |
|  | 32.2 | 32.5 | 37.5 |  |  |  |  |  |
|  | 33.6 |  | 36.3 |  |  |  |  |  |
|  | 33.8 | 33.4 | 38.4 |  |  |  |  |  |
|  | 31.4 | 34.9 | 35.9 |  |  |  |  |  |
|  | 33.1 |  | 38.9 |  |  |  |  |  |
|  | 33.2 | 33.3 | 37.0 |  |  |  |  |  |
|  | 33.6 | 33.0 |  |  |  |  |  |  |
|  | 30.7 | 33.8 | 38.6 |  |  |  |  |  |
|  | 31.9 | 33.3 | 36.6 |  |  |  |  |  |
|  | 33.8 | 34.5 | 39.0 |  |  |  |  |  |

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|  | 33.6 |  | 36.0 |  |  |  |  |  |
|  | 33.4 | 32.6 |  |  |  |  |  |  |
|  | 32.4 | 32.7 | 36.2 |  |  |  |  |  |
|  | 31.1 | 34.2 | 38.8 |  |  |  |  |  |
|  | 33.0 | 33.0 |  |  |  |  |  |  |
|  | 31.5 | 32.9 | 39.0 |  |  |  |  |  |
|  | 31.9 | 33.7 | 35.6 |  |  |  |  |  |
|  | 32.0 | 34.9 | 35.8 |  |  |  |  |  |
|  | 31.8 | 33.8 |  |  |  |  |  |  |
|  | 30.7 |  | 37.5 |  |  |  |  |  |
|  | 33.7 | 34.1 | 35.5 |  |  |  |  |  |
|  | 32.3 |  |  |  |  |  |  |  |
|  | 32.0 | 33.8 | 37.3 |  |  |  |  |  |
|  | 33.7 | 33.4 | 38.1 |  |  |  |  |  |
|  | 33.7 |  |  |  |  |  |  |  |
|  | 31.0 | 34.2 | 37.4 |  |  |  |  |  |
|  | 33.8 |  | 38.2 |  |  |  |  |  |
|  | 32.5 | 34.0 | 36.0 |  |  |  |  |  |
|  | 31.8 | 34.0 | 35.4 |  |  |  |  |  |
|  | 31.7 |  | 37.1 |  |  |  |  |  |
|  | 30.9 |  | 36.2 |  |  |  |  |  |
|  | 33.7 | 33.1 | 36.2 |  |  |  |  |  |
|  | 33.7 | 35.0 | 37.9 |  |  |  |  |  |
|  | 31.5 |  |  |  |  |  |  |  |
|  | 33.6 | 33.6 |  |  |  |  |  |  |
|  | 31.0 | 34.7 |  |  |  |  |  |  |
|  | 32.0 | 33.6 | 35.6 |  |  |  |  |  |
|  | 31.5 | 34.3 | 37.3 |  |  |  |  |  |
|  | 31.9 | 33.6 | 36.6 |  |  |  |  |  |
|  | 31.5 |  | 37.3 |  |  |  |  |  |
|  | 33.9 | 33.8 | 38.8 |  |  |  |  |  |
|  | 33.0 | 32.0 | 37.1 |  |  |  |  |  |
|  | 31.9 |  | 35.6 |  |  |  |  |  |
|  | 33.7 | 32.0 | 37.9 |  |  |  |  |  |
|  | 32.4 |  | 38.9 |  |  |  |  |  |
|  | 32.2 | 34.2 |  |  |  |  |  |  |
|  | 33.1 | 33.6 | 36.6 |  |  |  |  |  |
|  | 31.2 | 34.6 | 38.8 |  |  |  |  |  |
|  | 33.0 | 34.9 | 37.1 |  |  |  |  |  |
|  | 33.6 | 33.9 | 36.7 |  |  |  |  |  |
|  | 31.6 |  |  |  |  |  |  |  |
|  | 33.4 | 33.2 | 35.8 |  |  |  |  |  |
|  | 31.2 |  | 35.7 |  |  |  |  |  |
|  | 31.1 |  | 37.3 |  |  |  |  |  |
|  | 32.4 | 32.9 |  |  |  |  |  |  |
|  | 33.8 | 32.1 | 37.8 |  |  |  |  |  |
|  | 33.8 | 35.0 | 35.6 |  |  |  |  |  |
|  | 33.4 | 33.8 | 36.7 |  |  |  |  |  |
|  | 31.8 |  | 37.8 |  |  |  |  |  |
|  | 33.8 | 34.3 |  |  |  |  |  |  |

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|  | 30.8 |  | 37.2 |  |  |  |  |  |
|  | 32.9 | 34.1 | 36.8 |  |  |  |  |  |
|  | 32.9 | 34.1 | 36.2 |  |  |  |  |  |
|  | 32.4 |  |  |  |  |  |  |  |
|  | 32.1 | 34.8 | 36.9 |  |  |  |  |  |
|  | 32.1 | 32.9 | 38.2 |  |  |  |  |  |
|  | 32.2 | 33.3 |  |  |  |  |  |  |
|  | 31.4 | 33.5 | 36.7 |  |  |  |  |  |
|  | 33.3 | 34.5 | 38.7 |  |  |  |  |  |
|  | 33.3 | 34.7 |  |  |  |  |  |  |
|  | 32.7 | 34.0 | 38.2 |  |  |  |  |  |
|  | 31.1 | 32.2 | 37.3 |  |  |  |  |  |
|  | 32.6 | 33.9 |  |  |  |  |  |  |
|  | 33.6 | 32.3 | 37.6 |  |  |  |  |  |
|  | 32.0 |  |  |  |  |  |  |  |
|  | 32.7 | 32.7 |  |  |  |  |  |  |
|  | 33.4 | 34.9 | 38.1 |  |  |  |  |  |
|  | 31.0 | 34.0 |  |  |  |  |  |  |
|  | 31.5 |  | 39.0 |  |  |  |  |  |
|  | 32.4 | 33.6 | 37.3 |  |  |  |  |  |
|  | 33.9 | 33.6 |  |  |  |  |  |  |
|  | 31.9 | 32.4 | 39.0 |  |  |  |  |  |
|  | 32.3 | 35.0 | 38.6 |  |  |  |  |  |
|  | 31.4 | 34.5 | 37.2 |  |  |  |  |  |
|  | 31.5 |  |  |  |  |  |  |  |
|  | 33.7 | 33.9 | 37.5 |  |  |  |  |  |
|  | 32.8 | 32.1 | 37.4 |  |  |  |  |  |
|  | 31.3 | 35.1 |  |  |  |  |  |  |
|  | 31.9 | 33.9 | 37.4 |  |  |  |  |  |
|  | 33.8 | 34.7 | 38.2 |  |  |  |  |  |
| **Среднее** | **32.383** | **33.621** | **37.251** |  |  |  |  |  |
| **Максимум** | **33.9** | **35.1** | **39.0** |  |  |  |  |  |
| **Минимум** | **30.7** | **32.0** | **35.4** |  |  |  |  |  |

**Таблица 21.** Данные по рисунку 5. Прирост длины волосовидных корней, переживших долговременное хранение в условиях содержания соли NaCl (150 мМ).

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| **ДИКИЙ ТИП** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 22.2 | 27.0 | 17.6 | 15.9 | 10.0 |  |  |  |
|  | 23.2 | 28.6 |  | 15.9 |  |  |  |  |
|  | 22.9 |  |  | 15.7 | 12.0 |  |  |  |
|  | 22.6 | 26.8 | 18.3 |  |  |  |  |  |
|  | 22.3 | 27.4 | 17.2 |  |  |  |  |  |
|  | 23.3 | 27.5 |  |  |  |  |  |  |
|  | 22.3 | 29.2 | 16.8 | 16.3 | 12.9 |  |  |  |
|  | 23.0 |  | 17.2 |  |  |  |  |  |
|  | 23.6 | 28.7 | 17.8 |  |  |  |  |  |
|  | 22.8 | 26.7 |  | 15.6 |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 22.5 | 27.9 |  |  | 12.1 |  |  |  |
|  | 22.9 |  | 18.4 | 15.8 |  |  |  |  |
|  | 23.7 | 26.8 |  |  |  |  |  |  |
|  | 22.9 |  | 17.7 |  |  |  |  |  |
|  | 23.2 | 28.5 |  | 15.5 | 12.5 |  |  |  |
|  | 21.8 | 27.6 | 18.1 |  |  |  |  |  |
|  | 22.8 |  | 17.1 |  |  |  |  |  |
|  |  | 29.4 |  |  |  |  |  |  |
|  | 22.2 | 27.0 | 18.1 |  |  |  |  |  |
|  | 22.7 | 28.4 |  | 16.7 | 12.9 |  |  |  |
|  | 22.9 | 27.8 | 17.1 |  |  |  |  |  |
|  | 21.9 |  |  |  |  |  |  |  |
|  | 22.6 | 28.5 | 17.3 | 16.3 | 13.0 |  |  |  |
|  | 22.1 |  | 17.6 |  |  |  |  |  |
|  | 22.2 | 26.8 |  |  |  |  |  |  |
|  | 21.9 | 28.2 | 17.6 | 16.6 |  |  |  |  |
|  | 23.7 |  | 17.9 |  | 13.4 |  |  |  |
|  | 22.0 |  |  |  |  |  |  |  |
|  | 22.4 | 27.5 | 17.8 |  |  |  |  |  |
|  | 22.0 | 27.0 | 18.3 | 15.3 | 14.7 |  |  |  |
|  | 23.7 | 28.2 | 18.4 |  |  |  |  |  |
|  | 22.5 | 39.3 | 17.8 | 16.1 |  |  |  |  |
|  | 23.2 | 28.4 | 17.1 |  |  |  |  |  |
|  | 23.3 | 27.2 | 17.7 | 15.5 |  |  |  |  |
|  | 22.3 | 27.3 |  |  | 12.4 |  |  |  |
|  | 21.8 | 28.0 | 17.4 |  |  |  |  |  |
|  | 22.7 | 28.0 | 17.3 |  |  |  |  |  |
|  | 22.8 | 28.7 |  | 15.4 |  |  |  |  |
|  | 22.2 |  | 17.9 |  | 14.8 |  |  |  |
|  | 22.3 | 28.3 | 17.2 |  |  |  |  |  |
|  | 22.1 | 27.8 |  |  |  |  |  |  |
|  | 23.5 |  | 17.9 |  |  |  |  |  |
|  | 22.2 | 27.9 |  | 16.1 |  |  |  |  |
|  | 22.2 | 29.4 |  |  | 14.1 |  |  |  |
|  | 22.2 | 29.1 | 17.3 |  |  |  |  |  |
|  | 21.6 | 29.4 | 16.7 |  |  |  |  |  |
|  | 22.2 | 27.1 | 17.4 | 15.6 |  |  |  |  |
|  | 22.2 |  | 17.7 |  | 15.3 |  |  |  |
|  | 22.3 | 28.4 |  |  |  |  |  |  |
|  | 23.7 | 27.7 | 17.9 |  |  |  |  |  |
|  | 21.9 | 27.8 | 18.2 | 16.0 | 13.9 |  |  |  |
|  | 23.0 |  | 17.0 |  |  |  |  |  |
|  | 23.0 | 28.2 |  |  | 12.0 |  |  |  |
|  | 22.4 | 27.9 | 17.0 | 16.3 |  |  |  |  |
|  | 23.6 | 27.6 | 17.2 |  |  |  |  |  |
|  | 22.5 |  | 18.4 |  |  |  |  |  |
|  | 22.8 | 28.5 |  |  |  |  |  |  |
|  | 23.3 | 28.8 |  |  | 10.1 |  |  |  |
|  | 22.5 | 28.9 | 17.8 | 15.5 |  |  |  |  |
|  | 22.6 | 27.9 | 17.4 |  |  |  |  |  |

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|  | 21.6 | 26.9 |  | 15.7 | 14.0 |  |  |  |
|  | 21.8 |  | 16.9 |  |  |  |  |  |
|  | 21.8 |  | 16.9 | 16.7 |  |  |  |  |
|  | 22.7 | 27.4 | 17.1 |  | 15.4 |  |  |  |
|  | 21.9 | 28.8 | 17.7 |  |  |  |  |  |
|  | 22.5 | 26.9 | 18.1 |  |  |  |  |  |
|  | 22.4 | 27.8 | 17.8 | 15.4 |  |  |  |  |
|  | 22.4 | 28.0 | 17.6 | 15.3 |  |  |  |  |
|  | 23.2 | 28.8 |  | 16.1 |  |  |  |  |
|  | 23.8 | 28.0 | 17.0 |  |  |  |  |  |
|  | 23.5 | 27.2 | 17.1 |  | 13.0 |  |  |  |
|  | 21.7 |  | 17.9 |  |  |  |  |  |
|  | 22.6 | 27.2 |  |  |  |  |  |  |
|  | 23.3 | 27.7 | 17.8 | 16.5 |  |  |  |  |
|  | 23.3 | 28.9 |  |  |  |  |  |  |
|  | 21.9 | 26.8 | 17.1 |  | 13.0 |  |  |  |
|  | 21.7 |  | 17.2 |  |  |  |  |  |
|  | 23.1 | 27.9 |  | 16.2 |  |  |  |  |
|  | 21.9 | 29.1 | 17.9 |  |  |  |  |  |
|  | 23.2 | 27.9 |  |  |  |  |  |  |
|  | 23.7 | 28.0 | 17.6 | 16.7 |  |  |  |  |
|  | 23.3 | 28.6 |  |  | 12.3 |  |  |  |
|  | 23.8 | 27.3 | 18.2 |  |  |  |  |  |
|  | 23.5 |  |  |  |  |  |  |  |
|  | 23.4 | 27.6 | 17.5 |  |  |  |  |  |
|  | 23.1 | 27.5 |  |  |  |  |  |  |
|  | 23.8 | 27.8 | 17.6 | 16.2 |  |  |  |  |
|  | 22.4 | 29.0 |  |  | 13.6 |  |  |  |
|  | 23.2 | 27.8 | 17.7 |  |  |  |  |  |
|  | 23.4 |  |  |  |  |  |  |  |
|  | 22.4 | 27.1 | 18.0 |  |  |  |  |  |
|  | 21.8 | 27.5 |  |  |  |  |  |  |
|  | 22.5 |  | 17.3 |  |  |  |  |  |
|  | 23.3 | 29.1 |  | 16.2 | 12.3 |  |  |  |
|  | 22.8 | 29.2 | 18.0 |  |  |  |  |  |
|  | 23.8 | 28.2 |  |  | 11.9 |  |  |  |
|  | 22.1 | 33.6 | 16.9 |  |  |  |  |  |
|  | 22.2 | 27.3 |  | 16.1 |  |  |  |  |
|  | 21.7 |  | 17.6 |  |  |  |  |  |
|  | 22.5 | 29.4 |  |  |  |  |  |  |
|  | 22.6 | 28.8 | 17.6 |  |  |  |  |  |
|  | 22.1 | 29.4 | 17.5 |  |  |  |  |  |
|  | 23.8 |  | 16.8 |  |  |  |  |  |
|  | 22.9 | 26.9 |  | 16.0 |  |  |  |  |
|  | 23.6 | 26.8 | 17.3 |  |  |  |  |  |
|  | 23.5 |  |  |  |  |  |  |  |
|  | 22.6 | 27.6 | 16.7 |  |  |  |  |  |
|  | 22.3 | 26.9 | 17.9 |  |  |  |  |  |
|  | 23.6 | 28.3 | 17.3 | 16.3 |  |  |  |  |
|  | 23.2 |  | 16.7 |  | 11.0 |  |  |  |

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|  | 23.1 | 27.8 |  |  |  |  |  |  |
|  | 22.6 | 29.1 | 17.2 |  |  |  |  |  |
|  | 22.0 | 29.0 | 18.2 |  | 10.2 |  |  |  |
|  | 23.4 | 29.2 |  |  |  |  |  |  |
|  | 22.5 | 28.3 |  |  |  |  |  |  |
|  | 23.8 | 27.3 | 17.2 | 16.3 | 12.4 |  |  |  |
|  | 22.0 |  | 17.7 |  |  | 2.0 |  |  |
|  | 22.9 | 28.8 |  |  |  |  |  |  |
|  | 22.4 | 28.7 | 17.4 |  |  |  |  |  |
|  | 22.9 | 28.4 |  | 20.0 |  |  |  |  |
|  | 23.0 | 18.6 | 17.0 |  |  |  |  |  |
|  | 22.9 | 27.4 | 18.1 | 16.8 |  |  |  |  |
|  | 22.7 | 27.5 | 17.6 |  |  |  |  |  |
|  | 22.6 |  |  |  | 12.1 |  |  |  |
|  | 21.9 | 29.1 |  |  |  |  |  |  |
|  | 22.4 |  | 17.9 | 15.7 |  |  |  |  |
|  | 21.6 | 27.2 |  |  |  |  |  |  |
|  | 23.4 | 27.8 |  |  |  |  |  |  |
| **Среднее** | **22.692** | **28.080** | **17.535** | **16.115** | **12.756** |  |  |  |
| **Максимум** | **23.8** | **39.3** | **18.4** | **20.0** | **15.4** |  |  |  |
| **Минимум** | **21.6** | **18.6** | **16.7** | **15.3** | **10.0** |  |  |  |
| **L1** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 35.7 | 41.4 | 38.5 | 27.4 | 22.1 | 25.5 | 35.3 |  |
|  | 34.9 | 38.0 |  |  |  | 27.3 |  |  |
|  | 37.9 | 37.6 | 38.2 | 28.8 | 21.8 |  |  |  |
|  | 36.2 | 39.3 | 37.2 | 27.0 |  | 26.4 | 34.7 |  |
|  | 37.5 |  |  | 27.9 | 21.5 |  |  |  |
|  | 37.7 | 39.5 | 39.1 |  | 21.3 | 27.1 | 34.4 |  |
|  | 36.0 | 40.7 | 38.1 | 27.8 | 22.1 |  |  |  |
|  | 35.0 | 38.5 | 38.6 | 29.0 |  |  | 35.5 |  |
|  | 36.0 | 40.0 | 38.2 | 28.5 | 21.7 | 25.4 | 35.0 |  |
|  | 36.3 | 38.9 | 70.3 | 29.2 | 23.2 | 27.0 |  |  |
|  | 34.8 | 40.6 | 39.1 | 28.0 | 22.4 | 26.6 | 34.2 |  |
|  | 37.2 | 39.6 | 36.8 | 27.3 | 22.2 |  |  |  |
|  | 36.1 | 40.1 | 37.9 | 27.6 | 22.7 | 26.9 |  |  |
|  | 37.3 | 39.2 | 38.0 | 27.8 |  | 26.7 | 33.5 |  |
|  | 37.9 |  | 37.5 | 27.6 | 21.6 | 26.0 | 34.5 |  |
|  | 38.2 | 37.6 | 36.7 | 27.9 | 23.2 |  | 34.2 |  |
|  | 36.0 | 40.4 | 40.0 | 29.3 | 21.8 |  |  |  |
|  | 37.6 | 41.1 | 39.8 | 28.3 | 21.4 | 26.8 | 35.0 |  |
|  | 35.2 | 39.2 | 38.8 | 26.8 | 23.0 |  | 35.7 |  |
|  | 36.0 | 38.3 | 38.2 | 28.5 |  | 27.2 | 34.8 |  |
|  | 38.1 | 38.0 |  | 29.3 | 21.2 |  |  |  |
|  | 37.5 |  | 38.1 | 28.2 | 22.6 | 26.5 | 35.6 |  |
|  | 37.3 | 38.8 | 38.6 | 29.2 | 21.7 |  |  |  |
|  | 35.2 | 37.7 | 39.9 | 27.8 | 22.6 |  | 33.9 |  |
|  | 36.0 | 39.1 | 38.9 |  | 21.6 | 26.9 | 35.5 |  |
|  | 38.1 | 40.3 | 40.0 | 26.8 | 22.4 | 25.9 | 32.7 |  |

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|  | 35.1 | 40.9 |  | 27.9 |  |  | 32.6 |  |
|  | 37.2 | 38.4 | 36.9 | 27.4 | 21.3 | 27.0 |  |  |
|  | 35.3 | 40.4 | 37.7 |  | 22.3 | 26.8 | 34.7 |  |
|  | 35.6 | 38.6 | 39.1 | 28.1 | 22.6 | 26.8 | 35.8 |  |
|  | 35.6 | 40.5 | 38.9 | 29.3 | 22.3 |  | 33.7 |  |
|  | 36.0 | 40.5 | 38.8 |  | 22.6 | 27.7 | 33.0 |  |
|  | 37.9 | 40.9 | 38.3 | 28.2 |  |  | 34.7 |  |
|  | 37.2 | 40.2 | 38.1 | 27.3 | 21.9 | 25.6 | 35.4 |  |
|  | 37.6 | 37.6 | 38.3 | 27.6 | 21.2 |  | 34.6 |  |
|  | 34.8 | 40.1 | 37.7 |  |  | 26.5 |  |  |
|  | 37.9 | 41.2 | 36.6 | 27.9 | 23.1 | 26.8 | 33.3 |  |
|  | 35.0 | 40.5 | 39.9 | 27.5 | 21.7 |  | 34.8 |  |
|  | 37.3 | 40.7 | 37.5 | 29.5 | 23.2 | 27.5 | 34.0 |  |
|  | 34.8 | 40.9 | 40.4 |  | 23.0 | 27.7 | 32.6 |  |
|  | 36.2 | 37.6 | 37.2 | 27.1 | 21.6 |  | 33.7 |  |
|  | 36.5 | 40.9 | 39.9 | 27.6 | 21.2 | 27.8 |  |  |
|  | 38.1 | 37.7 | 38.4 | 29.5 | 21.6 |  | 33.8 |  |
|  | 34.9 | 38.8 | 37.4 | 27.5 |  | 26.0 |  |  |
|  | 36.0 |  | 39.7 |  | 21.3 | 25.4 | 35.1 |  |
|  | 35.1 | 39.3 | 37.0 | 28.1 | 22.3 | 25.5 |  |  |
|  | 35.7 | 39.1 | 37.2 | 29.1 |  |  | 33.2 |  |
|  | 34.7 | 40.7 |  | 27.4 | 22.4 | 26.9 |  |  |
|  | 35.2 | 37.5 | 36.9 |  | 22.2 | 26.6 | 35.1 |  |
|  | 36.9 | 41.1 | 39.7 | 29.5 | 22.6 | 27.6 |  |  |
|  | 35.0 |  | 39.0 | 28.7 | 22.1 | 27.7 | 33.0 |  |
|  | 35.8 | 40.5 | 37.3 |  | 23.1 | 27.6 |  |  |
|  | 37.7 | 40.1 |  | 28.2 |  | 27.6 |  |  |
|  | 37.6 | 39.5 | 38.6 | 27.2 | 21.8 |  | 35.0 |  |
|  | 37.5 | 39.1 | 39.5 | 27.3 | 21.9 | 25.5 |  |  |
|  | 35.6 | 40.9 | 39.2 | 27.0 |  | 27.1 | 34.8 |  |
|  | 36.2 | 38.1 | 39.9 | 26.8 | 22.2 |  | 35.7 |  |
|  | 37.9 | 39.9 | 39.9 | 27.6 | 22.1 |  |  |  |
|  | 35.4 |  | 38.4 |  | 21.6 | 27.1 | 33.3 |  |
|  | 35.2 | 40.8 | 36.2 | 29.0 | 21.2 | 26.5 |  |  |
|  | 35.4 | 40.5 | 37.7 | 28.6 | 21.5 | 26.8 |  |  |
|  | 35.0 | 40.8 | 39.6 | 27.5 |  |  | 35.3 |  |
|  | 34.9 |  | 37.7 |  | 23.0 | 25.9 | 34.5 |  |
|  | 36.4 | 38.0 | 40.4 | 27.4 | 23.1 | 25.9 |  |  |
|  | 37.0 | 37.5 | 38.0 | 27.8 | 21.8 | 26.5 | 35.0 |  |
|  | 37.7 | 38.0 | 40.2 | 27.8 |  | 25.3 | 35.6 |  |
|  | 35.0 | 40.4 | 37.8 | 27.1 | 23.1 |  |  |  |
|  | 34.8 | 39.2 |  |  | 22.0 | 27.4 | 34.7 |  |
|  | 35.2 | 41.0 | 39.1 | 29.0 |  |  | 35.0 |  |
|  | 34.9 | 37.9 | 38.4 | 28.1 | 21.7 | 25.4 |  |  |
|  | 36.7 | 38.7 | 35.3 | 26.8 | 21.3 | 25.7 | 34.2 |  |
|  | 36.0 |  | 36.7 | 28.6 | 21.9 | 27.2 |  |  |
|  | 35.7 | 38.2 | 36.9 | 27.7 |  |  | 35.1 |  |
|  | 37.0 | 39.0 | 36.6 |  | 27.5 | 25.6 |  |  |
|  | 37.0 | 38.0 | 37.8 | 28.2 | 21.4 |  | 32.6 |  |
|  | 38.2 | 39.5 |  | 29.0 | 21.3 | 25.2 | 35.5 |  |

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|  | 36.1 | 40.4 | 38.0 | 27.3 | 22.1 | 26.5 |  |  |
|  | 38.1 |  | 37.4 | 27.4 |  |  |  |  |
|  | 35.7 | 38.9 | 37.0 | 29.1 | 22.3 | 26.1 | 33.2 |  |
|  | 35.3 | 38.7 | 37.5 | 28.9 |  | 27.8 | 33.9 |  |
|  | 36.9 | 38.4 | 36.8 |  | 22.0 | 27.1 |  |  |
|  | 36.5 |  | 37.8 | 28.7 | 22.7 |  | 35.5 |  |
|  | 37.7 | 41.3 | 39.3 | 27.5 | 22.2 | 26.4 | 34.9 |  |
|  | 35.7 | 40.8 | 40.3 | 27.6 |  | 25.8 |  |  |
|  | 36.3 | 38.4 | 37.5 | 27.8 | 21.3 | 27.5 |  |  |
|  | 36.5 | 39.0 | 38.0 |  | 21.3 | 25.4 | 35.8 |  |
|  | 35.9 | 41.4 |  | 28.8 |  | 25.4 |  |  |
|  | 37.4 | 38.8 | 37.5 | 29.0 | 22.0 |  | 35.3 |  |
|  | 38.2 | 38.8 | 37.5 | 27.5 | 22.4 | 27.5 | 33.6 |  |
|  | 36.1 | 38.3 | 37.2 | 27.4 | 21.4 | 26.5 |  |  |
|  | 34.8 | 40.0 |  | 28.4 | 21.9 |  | 35.1 |  |
|  | 38.1 |  | 37.1 | 27.3 | 23.0 | 27.7 |  |  |
|  | 35.5 | 37.5 |  | 28.3 |  | 26.7 | 34.9 |  |
|  | 36.4 | 40.4 | 39.8 | 28.6 | 22.2 | 25.4 | 32.7 |  |
|  | 35.8 | 39.3 | 37.4 | 27.1 | 21.4 | 27.7 | 34.9 |  |
|  | 36.5 |  | 37.9 | 29.1 |  |  |  |  |
|  | 37.9 | 40.6 |  | 27.0 | 23.3 |  | 33.4 |  |
|  | 34.9 | 38.3 | 38.0 |  | 23.0 | 26.2 |  |  |
|  | 37.3 | 41.2 | 37.8 | 27.4 |  | 27.1 | 34.9 |  |
|  | 37.9 | 39.0 | 39.4 | 27.7 | 21.6 |  | 32.7 |  |
|  | 37.2 |  | 39.8 | 29.2 | 23.2 | 26.5 |  |  |
|  | 37.2 | 37.8 | 38.0 | 29.3 |  | 25.9 | 34.7 |  |
|  | 37.1 | 40.7 |  |  | 21.4 |  |  |  |
|  | 38.0 | 39.9 | 39.2 | 27.2 |  | 26.4 | 33.3 |  |
|  | 36.8 | 40.6 | 39.6 | 29.0 | 23.2 |  | 34.0 |  |
|  | 35.9 | 40.2 | 39.8 | 27.0 | 21.1 | 27.1 |  |  |
|  | 36.5 |  | 39.0 |  |  |  | 34.1 |  |
|  | 36.2 | 38.7 | 36.6 | 26.7 | 22.1 | 27.2 | 35.1 |  |
|  | 35.2 | 37.6 | 37.8 |  | 22.2 | 27.5 | 34.5 |  |
|  | 37.1 |  |  | 27.2 | 21.8 |  |  |  |
|  | 37.9 | 38.8 | 39.9 |  | 22.4 | 27.3 | 34.8 |  |
|  | 36.0 | 40.7 | 39.4 | 28.5 | 22.6 | 25.7 |  |  |
|  | 35.6 | 40.8 |  |  | 23.1 |  | 34.7 |  |
|  | 36.2 | 39.4 | 37.7 | 28.4 |  | 25.2 |  |  |
|  | 37.5 | 37.8 | 37.4 | 27.9 | 21.3 | 27.5 |  |  |
|  | 35.9 | 39.3 | 37.7 |  | 23.2 |  | 32.4 |  |
|  |  | 40.3 | 37.2 |  | 22.0 | 26.2 |  |  |
|  | 37.8 | 41.3 | 40.3 | 27.8 | 22.8 |  | 34.3 |  |
|  | 37.8 |  | 40.3 |  | 22.0 | 25.7 |  |  |
|  | 37.8 | 37.7 |  | 28.2 |  |  |  |  |
|  | 35.8 | 37.9 | 36.9 | 26.8 | 22.7 | 27.2 |  |  |
|  | 35.6 |  | 38.3 | 28.4 | 23.1 |  | 35.2 |  |
|  | 37.9 | 41.1 |  |  |  | 27.5 | 34.7 |  |
|  | 38.0 | 37.6 | 32.5 |  | 22.2 | 25.8 | 35.2 |  |
|  | 37.5 |  | 37.6 | 27.6 | 22.9 | 27.0 |  |  |
|  | 37.8 | 40.2 | 38.6 | 29.2 | 21.8 |  | 35.0 |  |

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|  | 35.5 | 38.9 | 29.2 |  |  |  |  |  |
|  | 34.9 | 40.4 | 38.5 | 27.3 | 21.1 | 25.5 | 35.2 |  |
| **Среднее** | **36.448** | **39.456** | **38.455** | **28.012** | **22.186** | **26.580** | **34.437** |  |
| **Максимум** | **38.2** | **41.4** | **70.3** | **29.5** | **27.5** | **27.8** | **35.8** |  |
| **Минимум** | **34.7** | **37.5** | **29.2** | **26.7** | **21.1** | **25.2** | **32.4** |  |
| **L2** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 34.8 | 28.0 |  |  |  |  |  |  |
|  | 32.2 |  |  |  |  |  |  |  |
|  | 33.1 | 29.0 |  |  |  |  |  |  |
|  | 34.6 | 28.0 | 21.6 |  |  |  |  |  |
|  | 35.0 | 26.5 |  |  |  |  |  |  |
|  | 34.5 | 26.8 | 21.2 |  |  |  |  |  |
|  | 34.5 | 28.2 |  |  |  |  |  |  |
|  | 32.3 | 27.5 | 22.2 |  |  |  |  |  |
|  | 32.3 | 26.5 | 21.0 |  |  |  |  |  |
|  | 34.7 |  |  |  |  |  |  |  |
|  | 32.5 | 27.0 | 22.6 |  |  |  |  |  |
|  | 35.0 | 27.1 |  |  |  |  |  |  |
|  | 33.6 | 28.3 |  |  |  |  |  |  |
|  | 35.1 |  | 21.5 |  |  |  |  |  |
|  | 33.5 | 28.0 |  |  |  |  |  |  |
|  | 32.8 | 28.2 | 21.2 |  |  |  |  |  |
|  | 32.6 |  |  |  |  |  |  |  |
|  | 33.4 | 26.8 |  |  |  |  |  |  |
|  | 32.2 | 26.5 |  |  |  |  |  |  |
|  | 33.3 | 27.5 | 21.1 |  |  |  |  |  |
|  | 34.4 |  |  |  |  |  |  |  |
|  | 32.9 | 28.1 |  |  |  |  |  |  |
|  | 32.7 | 28.9 |  |  |  |  |  |  |
|  | 34.4 | 28.1 | 21.6 |  |  |  |  |  |
|  | 34.6 |  |  |  |  |  |  |  |
|  | 33.1 |  |  |  |  |  |  |  |
|  | 33.6 |  | 21.5 |  |  |  |  |  |
|  | 33.4 |  |  |  |  |  |  |  |
|  | 32.6 | 26.5 | 22.8 |  |  |  |  |  |
|  | 32.2 |  |  |  |  |  |  |  |
|  | 32.9 | 28.3 | 22.1 |  |  |  |  |  |
|  | 34.6 |  |  |  |  |  |  |  |
|  | 34.9 | 29.2 | 21.7 |  |  |  |  |  |
|  | 33.2 |  |  |  |  |  |  |  |
|  | 32.3 | 27.9 | 22.3 |  |  |  |  |  |
|  | 33.8 |  |  |  |  |  |  |  |
|  | 33.6 | 27.3 | 22.0 |  |  |  |  |  |
|  | 33.2 | 28.8 |  |  |  |  |  |  |
|  | 35.1 |  |  |  |  |  |  |  |
|  | 34.1 | 28.6 | 21.7 |  |  |  |  |  |
|  | 34.2 | 27.9 |  |  |  |  |  |  |
|  | 32.7 |  | 21.1 |  |  |  |  |  |

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|  | 34.9 | 28.4 |  |  |  |  |  |  |
|  | 33.8 | 26.5 |  |  |  |  |  |  |
|  | 32.3 |  | 22.1 |  |  |  |  |  |
|  | 34.7 | 29.1 |  |  |  |  |  |  |
|  | 34.5 |  | 22.8 |  |  |  |  |  |
|  | 32.7 | 27.0 |  |  |  |  |  |  |
|  | 34.6 | 26.9 | 21.4 |  |  |  |  |  |
|  | 35.0 |  |  |  |  |  |  |  |
|  | 33.1 | 28.5 | 22.2 |  |  |  |  |  |
|  | 34.6 |  | 23.0 |  |  |  |  |  |
|  | 34.0 | 28.4 |  |  |  |  |  |  |
|  | 33.2 | 28.3 | 22.3 |  |  |  |  |  |
|  | 32.8 |  |  |  |  |  |  |  |
|  | 32.2 |  |  |  |  |  |  |  |
|  | 32.4 | 28.7 |  |  |  |  |  |  |
|  | 33.0 |  |  |  |  |  |  |  |
|  | 33.1 | 28.8 | 21.6 |  |  |  |  |  |
|  | 32.3 |  |  |  |  |  |  |  |
|  | 34.6 | 26.6 | 22.2 |  |  |  |  |  |
|  | 35.2 | 28.5 | 21.3 |  |  |  |  |  |
|  | 33.0 | 28.4 | 22.7 |  |  |  |  |  |
|  | 32.9 |  |  |  |  |  |  |  |
|  | 34.8 |  | 22.9 |  |  |  |  |  |
|  | 34.1 | 28.1 |  |  |  |  |  |  |
|  | 33.1 | 27.0 | 21.5 |  |  |  |  |  |
|  | 33.5 | 28.8 |  |  |  |  |  |  |
|  | 34.9 |  | 21.6 |  |  |  |  |  |
|  | 34.4 | 28.5 |  |  |  |  |  |  |
|  | 35.0 |  |  |  |  |  |  |  |
|  | 33.9 | 28.6 | 22.5 |  |  |  |  |  |
|  | 35.2 | 27.6 |  |  |  |  |  |  |
|  | 33.2 |  |  |  |  |  |  |  |
|  | 33.1 | 27.4 | 22.1 |  |  |  |  |  |
|  | 32.6 | 27.3 | 23.1 |  |  |  |  |  |
|  | 33.5 | 28.8 |  |  |  |  |  |  |
|  | 32.4 | 27.5 |  |  |  |  |  |  |
|  | 34.3 | 27.6 | 22.3 |  |  |  |  |  |
|  | 32.0 | 27.7 |  |  |  |  |  |  |
|  | 34.2 |  |  |  |  |  |  |  |
|  | 33.0 |  | 28.0 |  |  |  |  |  |
|  | 32.4 | 27.8 |  |  |  |  |  |  |
|  | 34.9 | 26.6 |  |  |  |  |  |  |
|  | 32.7 |  | 21.7 |  |  |  |  |  |
|  | 34.3 |  |  |  |  |  |  |  |
|  | 33.3 | 26.7 |  |  |  |  |  |  |
|  | 32.0 |  | 21.6 |  |  |  |  |  |
|  | 32.0 | 27.7 |  |  |  |  |  |  |
|  | 34.5 |  | 22.8 |  |  |  |  |  |
|  | 34.4 | 27.1 |  |  |  |  |  |  |
|  | 35.2 | 28.1 | 21.0 |  |  |  |  |  |

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|  | 34.3 |  |  |  |  |  |  |  |
|  | 34.6 | 27.8 | 21.2 |  |  |  |  |  |
|  | 32.2 | 28.6 |  |  |  |  |  |  |
|  | 34.3 | 29.1 |  |  |  |  |  |  |
|  | 34.1 | 26.6 |  |  |  |  |  |  |
|  | 34.7 |  | 21.2 |  |  |  |  |  |
|  | 34.6 | 27.9 |  |  |  |  |  |  |
|  | 32.5 | 28.0 | 23.0 |  |  |  |  |  |
|  | 33.7 |  |  |  |  |  |  |  |
|  | 35.1 | 26.5 | 21.6 |  |  |  |  |  |
|  | 34.5 | 27.6 |  |  |  |  |  |  |
|  | 33.2 | 27.9 | 21.4 |  |  |  |  |  |
|  | 34.6 |  |  |  |  |  |  |  |
|  | 34.4 | 28.1 | 26.5 |  |  |  |  |  |
|  | 34.8 |  | 21.1 |  |  |  |  |  |
|  | 34.3 | 27.0 |  |  |  |  |  |  |
|  | 34.1 |  |  |  |  |  |  |  |
|  | 32.6 | 27.8 | 21.3 |  |  |  |  |  |
|  | 35.2 | 27.6 |  |  |  |  |  |  |
|  | 33.3 | 26.9 | 22.7 |  |  |  |  |  |
|  | 32.2 |  | 21.2 |  |  |  |  |  |
|  | 33.4 | 27.5 |  |  |  |  |  |  |
|  | 32.7 |  |  |  |  |  |  |  |
|  | 33.2 | 28.0 | 22.2 |  |  |  |  |  |
|  | 34.9 |  |  | 3.5 |  |  |  |  |
|  | 33.1 | 26.9 | 23.1 |  |  |  |  |  |
|  | 34.7 | 27.0 |  |  |  |  |  |  |
|  | 32.8 | 27.4 |  |  |  |  |  |  |
|  | 32.5 |  |  |  |  |  |  |  |
|  | 32.6 | 28.8 | 21.4 |  |  |  |  |  |
|  | 34.1 |  |  |  |  |  |  |  |
|  | 32.0 | 28.5 |  |  |  |  |  |  |
|  | 35.2 | 28.3 | 21.8 |  |  |  |  |  |
|  | 32.1 | 28.5 |  |  |  |  |  |  |
|  | 32.9 |  |  |  |  |  |  |  |
|  | 32.9 | 28.9 |  |  |  |  |  |  |
| **Среднее** | **33.624** | **27.794** | **22.102** |  |  |  |  |  |
| **Максимум** | **35.2** | **29.2** | **28.0** |  |  |  |  |  |
| **Минимум** | **32.0** | **26.5** | **21.0** |  |  |  |  |  |
| **L3** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 43.3 | 46.1 | 47.2 | 43.4 | 39.8 | 45.6 | 53.4 | 45.9 |
|  | 39.9 | 45.2 | 48.9 | 44.9 | 38.4 | 44.4 |  | 45.4 |
|  | 43.3 | 45.9 | 46.7 | 44.7 |  |  |  | 45.9 |
|  | 39.6 | 44.6 | 45.4 | 44.6 | 40.4 | 45.1 | 55.2 | 45.1 |
|  | 40.1 | 44.3 | 45.1 | 41.5 | 39.8 |  | 55.0 |  |
|  | 40.9 | 44.7 | 46.3 | 42.6 | 40.8 | 43.4 |  | 43.3 |
|  | 42.0 | 44.9 | 48.8 | 41.1 | 38.7 | 43.1 | 56.5 | 46.3 |
|  | 40.7 | 44.0 | 47.9 | 43.2 |  | 43.4 | 53.4 | 42.4 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 42.5 | 46.4 | 44.5 | 43.5 | 41.4 |  |  | 44.3 |
|  | 39.8 | 44.2 | 48.8 | 42.8 | 40.6 | 43.6 | 53.6 |  |
|  | 42.0 | 44.5 | 46.8 | 44.7 | 42.1 | 44.7 | 56.1 | 42.3 |
|  | 41.8 | 46.9 | 46.0 | 44.3 |  |  | 53.2 | 44.6 |
|  | 42.8 | 46.1 | 48.8 | 44.3 | 40.5 | 45.5 | 53.0 | 43.3 |
|  | 43.5 | 47.1 | 48.2 | 41.5 | 40.5 | 44.3 |  | 45.2 |
|  | 43.5 | 44.6 | 47.7 | 43.3 | 38.7 | 44.5 | 54.8 | 43.8 |
|  | 40.7 | 46.1 | 49.0 | 43.8 | 40.4 | 42.8 |  |  |
|  | 40.0 | 47.2 | 45.8 | 41.2 | 38.4 | 43.5 | 52.7 | 43.3 |
|  | 43.4 | 46.2 | 45.6 | 43.0 | 39.6 | 44.2 | 53.1 | 42.9 |
|  | 42.0 | 45.0 | 46.7 | 45.3 |  | 44.0 |  | 45.2 |
|  | 39.6 | 44.9 | 47.4 | 41.4 | 41.3 | 45.2 | 53.0 | 43.1 |
|  | 41.9 | 46.0 | 49.2 | 41.3 | 41.9 | 44.1 | 51.9 | 45.3 |
|  | 40.3 | 46.7 | 45.8 | 43.7 | 41.9 | 45.9 | 53.7 | 45.3 |
|  | 39.7 | 46.9 | 47.6 | 44.2 | 42.0 |  | 56.5 | 42.5 |
|  | 42.9 | 45.9 | 47.0 | 42.7 |  | 45.0 | 55.3 | 42.1 |
|  | 42.3 | 44.0 | 48.4 | 44.3 | 41.5 | 44.3 | 51.8 | 43.6 |
|  | 42.5 | 46.7 | 48.4 | 41.4 | 38.2 | 42.6 | 52.9 | 45.6 |
|  | 43.4 | 46.9 | 47.1 | 43.5 | 40.9 | 43.5 | 55.2 | 46.1 |
|  | 40.5 | 46.0 | 45.1 |  |  | 42.4 | 51.9 | 45.4 |
|  | 42.6 | 43.9 | 49.0 | 43.4 | 39.3 |  |  | 42.4 |
|  | 42.4 | 47.3 | 44.9 | 42.6 | 40.7 | 46.0 | 53.5 |  |
|  | 41.0 | 47.7 | 47.1 | 41.6 | 41.9 | 45.8 | 53.5 | 44.4 |
|  | 43.3 | 46.0 | 46.7 | 44.7 | 41.9 | 45.1 | 53.3 | 46.2 |
|  | 40.7 | 45.9 | 46.4 | 41.7 | 41.0 | 44.7 | 52.5 | 44.9 |
|  | 42.9 | 46.5 | 48.2 | 42.0 |  | 46.0 | 56.0 |  |
|  | 40.7 | 46.5 | 44.6 | 42.3 | 40.6 | 46.4 |  | 43.9 |
|  | 41.4 | 45.6 | 44.5 | 41.7 | 42.0 |  | 55.8 | 42.7 |
|  | 41.3 | 46.0 | 44.9 | 44.3 | 39.7 | 45.0 | 56.7 | 42.1 |
|  | 40.4 | 46.7 | 49.0 |  | 40.9 | 46.1 |  |  |
|  | 42.4 | 48.1 | 47.2 | 41.4 | 41.1 |  | 54.8 | 45.8 |
|  | 41.4 | 46.4 | 46.0 | 45.1 | 41.5 | 44.5 | 56.8 | 45.7 |
|  | 42.2 | 44.2 | 45.5 | 43.4 |  | 46.2 | 53.9 | 45.3 |
|  | 40.0 | 48.5 | 47.2 | 45.3 | 39.9 |  |  |  |
|  | 40.4 | 44.7 | 48.0 | 45.2 | 39.8 | 43.7 | 51.8 | 43.4 |
|  | 43.0 | 44.7 |  | 45.2 | 39.0 |  | 52.7 | 42.7 |
|  | 39.7 | 47.1 | 44.9 | 44.7 | 40.8 | 45.7 | 55.2 | 44.8 |
|  | 43.4 | 47.7 | 46.7 | 44.1 | 42.1 | 44.0 | 53.3 | 44.6 |
|  | 42.6 | 46.9 | 45.5 | 42.1 | 40.6 | 43.8 |  |  |
|  | 42.6 | 44.2 | 46.1 | 41.6 | 39.9 | 46.5 | 52.3 | 43.8 |
|  | 42.3 | 45.8 | 46.6 | 41.8 | 41.3 |  | 53.5 | 46.2 |
|  | 41.7 | 46.8 | 46.3 | 42.5 | 38.8 | 43.2 |  | 43.5 |
|  | 41.1 | 45.5 | 45.4 | 42.8 | 39.6 | 43.3 | 52.5 | 44.1 |
|  | 41.1 | 45.5 | 48.2 | 42.4 | 39.7 | 42.5 | 53.2 | 44.2 |
|  | 43.8 | 47.3 | 47.5 | 41.6 | 40.8 |  | 55.1 | 42.1 |
|  | 40.1 | 44.9 | 45.2 | 41.6 | 41.4 | 43.2 | 55.5 |  |
|  | 42.0 | 46.1 | 48.1 | 44.8 |  | 43.4 |  | 43.0 |
|  | 39.7 | 48.4 | 47.9 | 41.9 | 39.6 | 44.5 |  |  |
|  | 42.9 | 46.0 | 44.6 | 43.8 | 41.4 | 45.2 | 56.5 | 43.9 |
|  | 42.6 | 45.6 | 48.2 | 44.0 | 41.6 | 44.8 | 52.7 | 43.9 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 40.7 | 48.3 | 47.4 | 45.2 | 39.8 | 42.7 | 55.9 |  |
|  | 43.2 | 48.1 | 45.8 |  | 38.3 | 43.7 |  | 44.1 |
|  | 41.0 | 45.4 | 48.0 | 42.4 | 38.4 | 43.2 | 51.7 | 42.6 |
|  | 40.5 | 47.9 | 47.2 | 43.8 |  | 43.8 | 55.0 | 43.0 |
|  | 42.3 | 46.0 | 44.9 | 41.6 | 40.6 | 46.6 |  | 42.7 |
|  | 41.8 | 44.9 | 46.2 | 43.0 | 39.3 | 46.1 | 52.0 | 42.8 |
|  | 40.2 | 46.5 | 48.5 | 41.9 | 39.5 | 43.3 | 54.5 | 44.3 |
|  | 43.2 | 43.9 | 45.7 | 42.8 | 41.8 | 46.4 | 53.7 | 43.8 |
|  | 43.4 | 44.6 |  | 44.4 | 39.4 |  | 52.3 | 45.8 |
|  | 43.1 | 46.0 | 44.6 | 43.7 | 41.9 | 42.5 | 52.7 | 43.3 |
|  | 43.3 | 45.7 | 48.9 | 41.2 | 40.0 | 43.2 | 56.4 |  |
|  | 41.3 | 46.9 | 46.2 | 42.9 | 40.3 | 42.5 | 52.4 | 44.5 |
|  | 41.1 | 44.2 | 46.1 | 44.2 | 41.4 | 45.4 |  |  |
|  | 42.8 | 46.6 | 48.0 | 45.1 | 41.8 | 44.7 | 53.4 | 44.0 |
|  | 40.3 | 47.2 | 46.6 |  | 41.1 |  | 52.5 | 43.9 |
|  | 42.1 | 46.6 | 44.8 | 42.6 | 39.0 | 42.9 |  | 44.1 |
|  | 43.7 | 44.8 | 47.3 | 43.6 | 38.7 | 43.9 | 54.5 | 42.3 |
|  | 40.1 | 46.8 | 44.6 | 41.7 | 41.5 | 46.4 | 53.2 | 43.0 |
|  | 39.9 | 46.8 | 46.7 | 44.0 | 41.5 | 46.7 |  | 45.5 |
|  | 40.5 | 43.9 | 46.4 | 41.4 | 40.8 |  | 52.7 | 42.7 |
|  | 41.3 |  | 47.1 | 43.4 | 42.1 | 43.5 | 52.6 | 27.0 |
|  | 41.3 | 47.9 | 47.6 | 42.0 |  | 44.2 | 56.5 |  |
|  | 42.1 | 47.9 | 48.3 | 41.5 | 38.6 |  | 55.6 | 45.7 |
|  | 41.4 | 46.8 | 45.4 | 41.5 | 39.0 | 46.3 | 52.3 | 44.9 |
|  | 43.1 | 48.0 | 48.9 | 44.2 | 39.7 | 43.4 |  | 42.0 |
|  | 42.9 | 44.5 | 46.2 | 43.4 | 39.6 |  | 53.1 |  |
|  | 40.8 | 48.1 | 48.4 | 45.0 | 38.2 | 43.2 |  | 44.5 |
|  | 40.8 | 45.7 | 44.6 | 42.3 |  | 45.8 | 52.9 | 45.0 |
|  | 40.5 | 45.8 | 46.8 | 43.5 | 39.0 | 43.2 | 55.5 | 44.7 |
|  | 43.7 | 47.7 | 48.5 | 42.2 | 38.3 | 45.6 | 52.3 | 44.9 |
|  | 40.9 | 47.1 | 45.6 | 43.7 | 38.8 |  | 56.2 | 43.5 |
|  | 40.1 | 46.8 | 49.0 | 41.7 | 40.7 | 45.2 | 52.3 |  |
|  | 42.1 |  | 48.2 | 43.1 | 42.0 | 46.1 | 52.7 | 42.5 |
|  | 42.1 | 45.9 | 45.1 | 42.7 | 40.8 |  |  | 45.2 |
|  | 39.9 | 45.6 |  | 44.2 | 41.6 | 44.7 | 56.2 | 43.2 |
|  | 42.1 | 43.9 | 44.9 | 43.5 | 41.8 | 46.3 | 54.9 |  |
|  | 43.7 | 45.0 | 48.7 | 43.7 | 38.7 | 42.9 | 52.2 | 42.4 |
|  | 40.7 | 44.1 | 48.8 | 44.6 | 38.5 |  | 53.2 | 46.2 |
|  | 40.6 | 46.6 | 45.8 | 42.9 | 41.8 | 42.7 | 55.3 | 46.1 |
|  | 42.6 | 44.3 | 48.8 | 44.4 |  | 43.7 |  |  |
|  | 41.4 | 45.7 | 48.3 | 42.6 | 41.1 | 46.2 | 53.4 | 42.2 |
|  | 43.2 | 47.1 | 48.3 | 43.8 | 41.1 | 42.9 | 51.6 | 45.3 |
|  | 42.3 |  | 48.6 | 45.2 | 39.6 | 43.4 | 53.4 |  |
|  | 39.8 | 48.1 | 45.0 | 42.4 |  | 44.6 | 55.0 | 43.4 |
|  | 40.9 | 44.2 | 44.6 | 43.0 | 40.2 |  | 60.0 | 63.0 |
|  | 39.6 | 48.4 | 48.2 | 43.7 | 38.2 | 46.1 |  | 42.4 |
|  | 43.6 | 47.9 | 45.2 | 43.5 | 41.9 |  | 55.1 |  |
|  | 39.7 | 46.1 | 45.6 | 43.5 | 41.4 | 43.1 | 52.5 | 44.8 |
|  | 40.9 | 44.6 | 47.0 | 41.1 | 41.0 | 45.1 |  | 43.1 |
|  | 39.7 | 47.7 | 48.7 | 42.7 | 40.3 | 43.7 | 74.0 | 42.6 |

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|  | 42.2 | 48.3 | 45.2 | 42.5 | 42.0 | 46.5 | 53.8 | 42.6 |
|  | 43.2 | 44.9 | 45.6 | 41.9 | 41.1 | 42.4 |  |  |
|  | 40.0 | 45.4 | 44.7 | 41.9 | 41.9 | 43.0 | 56.8 | 42.3 |
|  | 42.8 | 45.5 | 46.6 | 42.9 |  | 42.6 | 55.4 | 55.0 |
|  | 41.3 | 47.5 | 48.0 | 45.2 | 39.3 |  |  | 45.5 |
|  | 41.8 | 46.4 | 46.8 | 42.7 | 39.3 |  | 56.2 | 42.4 |
|  | 40.0 | 45.4 | 47.2 | 42.8 | 41.1 | 43.8 | 53.1 | 45.7 |
|  | 43.3 | 47.8 | 45.1 | 43.9 | 38.8 | 43.4 | 52.0 | 45.7 |
|  | 41.3 | 46.3 | 44.8 | 43.9 |  | 46.6 |  | 44.6 |
|  | 41.4 | 46.7 | 44.9 | 43.7 | 38.5 | 45.7 | 50.2 | 43.3 |
|  | 41.7 | 45.5 | 49.0 | 43.4 | 38.6 | 46.5 | 53.1 | 44.8 |
|  | 41.6 | 48.3 | 47.8 | 41.1 | 41.4 | 46.0 | 54.5 | 42.1 |
|  | 42.1 | 48.0 | 46.1 | 42.3 | 41.2 | 46.5 |  | 42.6 |
|  | 43.3 | 46.1 |  | 44.6 | 40.2 | 43.0 | 51.5 |  |
|  | 41.4 | 46.9 | 45.3 | 42.8 | 38.5 |  |  |  |
|  | 41.7 | 45.4 | 44.6 | 41.2 | 38.7 | 43.1 | 55.9 | 43.5 |
|  | 41.5 | 48.2 | 48.5 | 41.3 | 40.5 | 43.9 | 52.1 | 44.4 |
|  | 40.4 | 46.7 | 48.6 |  | 39.6 | 42.9 | 55.1 |  |
|  | 40.8 | 48.1 | 45.4 | 42.0 | 40.9 | 43.4 |  | 42.0 |
|  | 39.7 | 47.4 | 47.4 | 41.0 | 39.1 | 43.8 | 53.1 | 46.1 |
| **Среднее** | **41.607** | **46.172** | **46.788** | **43.066** | **40.307** | **44.406** | **54.141** | **44.144** |
| **Максимум** | **43.8** | **48.5** | **49.2** | **45.3** | **42.1** | **46.7** | **74.0** | **63.0** |
| **Минимум** | **39.6** | **43.9** | **44.5** | **41.0** | **38.2** | **42.4** | **50.2** | **27.0** |
| **L4** | | | | | | | | |
|  | **0 дней** | **60**  **дней** | **90**  **дней** | **120**  **дней** | **150**  **дней** | **180**  **дней** | **210**  **дней** | **240**  **дней** |
|  | 30.9 | 33.9 | 29.1 | 27.7 | 32.5 |  |  |  |
|  | 32.1 | 33.4 | 31.6 | 27.7 | 32.1 |  |  |  |
|  | 31.2 | 35.1 | 30.8 | 27.2 |  |  |  |  |
|  | 31.1 | 34.2 | 29.8 | 27.5 | 29.7 |  |  |  |
|  | 33.6 | 33.6 |  |  | 29.9 |  |  |  |
|  | 30.8 | 33.6 | 29.8 | 28.1 |  |  |  |  |
|  | 33.7 | 34.7 | 31.3 |  | 31.8 |  |  |  |
|  | 33.0 | 33.8 | 29.8 | 28.1 | 29.6 |  |  |  |
|  | 31.6 | 35.8 |  | 27.4 | 32.2 |  |  |  |
|  | 31.9 | 33.1 | 29.9 | 27.0 | 31.2 |  |  |  |
|  | 32.6 | 33.0 | 29.5 |  |  |  |  |  |
|  | 33.4 | 34.1 | 31.4 | 27.6 | 31.0 |  |  |  |
|  | 33.8 | 33.6 | 29.5 | 27.7 | 32.6 |  |  |  |
|  | 32.0 | 35.6 |  |  | 31.4 |  |  |  |
|  | 30.7 | 34.1 | 30.4 | 28.8 |  |  |  |  |
|  | 32.5 | 35.6 | 31.5 | 28.5 | 31.0 |  |  |  |
|  | 31.2 |  | 29.9 |  | 29.9 |  |  |  |
|  | 31.1 | 35.1 | 29.7 | 28.1 | 31.2 |  |  |  |
|  | 30.8 | 34.3 | 29.0 | 28.5 |  |  |  |  |
|  | 32.1 | 33.3 | 30.0 | 27.4 | 29.9 |  |  |  |
|  | 33.2 | 34.2 | 29.1 |  | 32.1 |  |  |  |
|  | 32.2 | 32.9 |  | 29.2 | 32.6 |  |  |  |
|  | 33.0 | 33.5 | 30.4 | 28.6 | 32.7 |  |  |  |
|  | 32.4 | 33.7 | 31.1 |  | 31.5 |  |  |  |

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|  | 32.3 |  | 30.3 | 28.3 | 30.7 |  |  |  |
|  | 31.3 | 35.7 | 29.7 | 29.1 |  |  |  |  |
|  | 32.4 | 34.0 |  | 29.5 | 30.7 |  |  |  |
|  | 31.8 | 33.0 | 29.1 |  |  |  |  |  |
|  | 33.8 | 34.2 | 30.0 | 29.3 |  |  |  |  |
|  | 33.5 | 35.3 | 31.4 | 27.4 |  |  |  |  |
|  | 32.1 | 36.1 | 29.5 | 27.5 | 31.0 |  |  |  |
|  | 31.9 | 35.2 | 29.4 |  | 31.8 |  |  |  |
|  | 31.3 | 33.0 | 29.8 | 27.2 |  |  |  |  |
|  | 33.5 | 34.0 |  | 27.5 | 30.3 |  |  |  |
|  | 32.1 | 34.2 | 29.0 |  |  |  |  |  |
|  | 33.8 | 34.7 | 31.2 | 27.1 | 29.6 |  |  |  |
|  | 31.3 | 36.1 | 30.6 | 28.3 | 32.1 |  |  |  |
|  | 32.2 |  | 30.1 | 28.8 | 30.2 |  |  |  |
|  | 32.2 | 33.1 | 29.5 |  |  |  |  |  |
|  | 33.6 | 33.4 | 31.3 | 27.7 | 29.6 |  |  |  |
|  | 33.8 | 35.0 |  | 29.2 | 30.6 |  |  |  |
|  | 31.4 | 35.9 | 29.8 | 27.3 | 32.1 |  |  |  |
|  | 33.1 | 36.2 | 30.8 |  |  |  |  |  |
|  | 33.2 | 35.6 | 31.3 | 29.2 | 30.1 |  |  |  |
|  | 33.6 |  | 31.6 | 27.4 | 32.7 |  |  |  |
|  | 30.7 | 34.3 | 28.9 |  | 30.3 |  |  |  |
|  | 31.9 | 35.0 | 29.4 | 27.8 |  |  |  |  |
|  | 33.8 | 34.3 | 30.5 |  | 32.5 |  |  |  |
|  | 33.6 | 35.7 | 28.7 | 28.3 |  |  |  |  |
|  | 33.4 | 35.1 | 30.1 |  |  |  |  |  |
|  | 32.4 | 34.3 | 30.3 | 27.6 | 29.6 |  |  |  |
|  | 31.1 | 33.4 | 31.1 |  | 31.2 |  |  |  |
|  | 33.0 | 33.1 |  | 28.1 | 31.3 |  |  |  |
|  | 31.5 | 33.6 | 29.0 |  | 30.5 |  |  |  |
|  | 31.9 | 36.1 | 31.3 | 27.3 |  |  |  |  |
|  | 32.0 | 34.2 | 29.3 |  | 32.2 |  |  |  |
|  | 31.8 | 35.5 | 31.1 |  | 30.6 |  |  |  |
|  | 30.7 | 34.5 | 30.6 | 27.4 | 31.4 |  |  |  |
|  | 33.7 | 35.9 |  |  | 30.8 |  |  |  |
|  | 32.3 | 33.9 | 31.0 |  | 32.6 |  |  |  |
|  | 32.0 | 33.1 | 30.5 | 29.1 | 31.7 |  |  |  |
|  | 33.7 | 35.0 | 31.4 | 27.4 |  |  |  |  |
|  | 33.7 | 34.8 | 29.3 |  | 32.1 |  |  |  |
|  | 31.0 | 33.5 |  | 27.2 |  |  |  |  |
|  | 33.8 | 34.9 | 29.6 |  | 30.3 |  |  |  |
|  | 32.5 | 35.6 | 30.4 | 29.1 | 30.3 |  |  |  |
|  | 31.8 | 33.3 | 30.8 | 27.9 | 30.7 |  |  |  |
|  | 31.7 | 33.7 | 30.1 |  |  |  |  |  |
|  | 30.9 | 35.2 |  | 27.4 | 32.6 |  |  |  |
|  | 33.7 | 36.0 | 30.0 |  | 31.4 |  |  |  |
|  | 33.7 | 36.1 | 30.7 | 28.9 | 31.3 |  |  |  |
|  | 31.5 | 35.2 | 29.5 |  | 32.2 |  |  |  |
|  | 33.6 | 33.2 | 28.9 | 28.5 |  |  |  |  |
|  | 31.0 | 33.5 | 29.6 | 27.7 | 32.3 |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 32.0 | 33.1 | 31.6 |  | 31.4 |  |  |  |
|  | 31.5 | 34.3 |  | 27.7 |  |  |  |  |
|  | 31.9 | 35.7 | 30.5 | 28.1 | 32.6 |  |  |  |
|  | 31.5 | 36.0 | 31.0 |  | 30.7 |  |  |  |
|  | 33.9 | 35.2 | 29.5 | 27.0 |  |  |  |  |
|  | 33.0 | 34.1 |  |  | 30.3 |  |  |  |
|  | 31.9 | 36.0 | 29.1 | 27.0 | 30.4 |  |  |  |
|  | 33.7 | 32.8 | 31.0 |  |  |  |  |  |
|  | 32.4 | 35.2 | 29.4 | 28.4 | 32.5 |  |  |  |
|  | 32.2 | 34.1 | 30.6 | 27.2 | 31.9 |  |  |  |
|  | 33.1 | 35.6 | 28.9 | 29.2 |  |  |  |  |
|  | 31.2 | 33.5 | 31.0 | 29.0 |  |  |  |  |
|  | 33.0 | 33.7 |  | 28.6 | 30.7 |  |  |  |
|  | 33.6 | 35.4 | 30.2 |  | 31.4 |  |  |  |
|  | 31.6 | 36.2 | 30.3 | 29.4 | 30.5 |  |  |  |
|  | 33.4 | 33.9 | 31.6 |  | 32.4 |  |  |  |
|  | 31.2 | 35.6 | 29.1 | 28.5 | 30.1 |  |  |  |
|  | 31.1 | 33.5 |  | 26.9 | 30.0 |  |  |  |
|  | 32.4 | 34.6 | 30.3 |  | 32.4 |  |  |  |
|  | 33.8 | 34.7 | 31.6 | 28.8 | 31.4 |  |  |  |
|  | 33.8 | 35.3 | 29.2 | 28.8 | 32.1 |  |  |  |
|  | 33.4 | 32.8 | 29.3 | 28.9 | 32.7 |  |  |  |
|  | 31.8 | 34.9 | 30.6 | 27.9 |  |  |  |  |
|  | 33.8 | 34.4 | 28.9 |  | 31.7 |  |  |  |
|  | 30.8 | 33.4 | 30.4 | 28.0 | 30.9 |  |  |  |
|  | 32.9 | 35.2 | 31.0 |  | 31.1 |  |  |  |
|  | 32.9 | 32.9 |  | 27.5 | 32.6 |  |  |  |
|  | 32.4 | 36.0 | 29.7 |  | 32.1 |  |  |  |
|  | 32.1 | 33.5 |  |  | 30.4 |  |  |  |
|  | 32.1 | 33.5 | 29.5 | 28.6 | 31.0 |  |  |  |
|  | 32.2 | 34.1 | 31.2 |  |  |  |  |  |
|  | 31.4 | 34.3 | 31.3 | 27.9 | 31.1 |  |  |  |
|  | 33.3 | 33.6 | 30.6 |  |  |  |  |  |
|  | 33.3 | 33.4 | 29.1 | 29.2 | 30.0 |  |  |  |
|  | 32.7 | 35.1 | 31.1 |  | 32.4 |  |  |  |
|  | 31.1 | 33.1 | 29.6 |  | 31.8 |  |  |  |
|  | 32.6 | 34.6 | 30.3 |  |  |  |  |  |
|  | 33.6 | 34.0 | 30.3 | 29.3 | 32.1 |  |  |  |
|  | 32.0 | 35.0 | 30.3 | 28.6 | 29.8 |  |  |  |
|  | 32.7 | 34.9 | 29.5 |  |  |  |  |  |
|  | 33.4 | 35.6 | 30.9 | 28.1 | 30.2 |  |  |  |
|  | 31.0 | 36.2 | 29.7 |  | 32.4 |  |  |  |
|  | 31.5 | 33.7 | 31.4 | 27.7 |  |  |  |  |
|  | 32.4 | 33.9 | 31.2 | 26.9 | 30.3 |  |  |  |
|  | 33.9 | 36.1 | 31.1 | 29.6 | 31.1 |  |  |  |
|  | 31.9 | 34.1 | 29.0 | 29.6 |  |  |  |  |
|  | 32.3 | 33.4 | 31.5 | 28.0 | 31.6 |  |  |  |
|  | 31.4 | 36.2 | 30.8 | 29.5 | 29.6 |  |  |  |
|  | 31.5 | 34.5 | 30.4 | 29.4 |  |  |  |  |
|  | 33.7 | 33.5 | 29.1 | 28.3 | 30.6 |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 32.8 | 35.3 | 29.1 | 28.4 |  |  |  |  |
|  | 31.3 | 35.1 | 31.0 | 28.9 |  |  |  |  |
|  | 31.9 | 35.7 | 31.7 | 28.5 | 32.5 |  |  |  |
|  | 33.8 | 32.9 | 28.7 | 28.1 |  |  |  |  |
| **Среднее** | 32.383 | 34.461 | 30.202 | 28.179 | 31.238 |  |  |  |
| **Максимум** | 33.9 | 36.2 | 31.7 | 29.6 | 32.7 |  |  |  |
| **Минимум** | 30.7 | 32.8 | 28.7 | 26.9 | 29.6 |  |  |  |