**Supplementary Material (Tables)**

**Table.S1** Measured hardness values for MWT

|  |  |  |  |
| --- | --- | --- | --- |
| No of runs | Total Hardness  (ppm) | Ca+2 conc  (ppm) | Mg+2conc  (ppm) |
|  | 168 | 138 | 30 |
| 1 | 166 | 137 | 29 |
| 2 | 160 | 134 | 26 |
| 3 | 154 | 130 | 24 |
| 5 | 150 | 128 | 22 |

Table (S2) Mean values of vegetative characters and yield and its components of cucumber (over two years of 2021 and 2022).

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Traits | | Days to first female flower (days) | Days to first male flower  (days) | Days to fruit harvest  (days) | Plant length  (cm.) | No. of nodes/plant | No. of female flower/node | Total yield  /Plant (kg) | No. of fruit/plant | Average fruit weight  (kg) |
| Concentrations  treatments | |
| Treatments | | | | | | | | | | |
| NMWT | | 37.76 b | 36.77 b | 43.08 a | 175.66 b | 28.10 b | 2.58 a | 2.18 b | 24.70 b | 48.82 b |
| MWT | | 38.68 a | 38.60 a | 42.71 a | 189.03 a | 30.00 a | 2.82 a | 2.68 a | 29.50 a | 89.13 a |
| Water salinity concentrations | | | | | | | | | | |
| 500 mg/L | | 39.75 a | 38.37 b | 43.75 a | 200.50 a | 31.65 a | 3.44 a | 3.55 a | 36.35 a | 97.77 a |
| 1000 mg/L | | 39.62 a | 40.20 a | 43.08 a | 205.29 a | 32.31 a | 3.15 b | 3.13 b | 34.05 a | 91.76 b |
| 1500 mg/L | | 37.62 b | 37.66 b | 41.37 b | 193.41 b | 30.63 b | 3.01 b | 2.75 c | 30.88 b | 90.03 b |
| 2000 mg/L | | 38.08 b | 37.25 b | 43.12 a | 165.04 c | 26.56 c | 2.49 c | 1.80 d | 22.15 c | 80.89 c |
| 2500 mg/L | | 36.04 c | 34.93 c | 43.16 a | 147.50 d | 24.08 d | 1.40 d | 0.92 e | 12.07 d | 47.43 d |
| The interaction, treatments x Water salinity concentrations | | | | | | | | | | |
| 500 mg/L | NMWT (T1) | 40.83 a | 37.75 abc | 44.83 a | 192.16 bc | 30.46 bc | 3.39 a | 3.36 a | 34.37 ab | 97.85 a |
| 500 mg/L | MWT (T2) | 38.66 c | 39.00 ab | 42.66 bc | 208.83 a | 32.83 a | 3.50 a | 3.74 a | 38.32 a | 97.69 a |
| 1000 mg/L | NMWT (T3) | 38.91 bc | 40.41 a | 42.91 bc | 198.83 b | 31.40 b | 3.06 abc | 2.69 b | 32.08 bc | 84.13 bc |
| 1000 mg/L | MWT (T4) | 40.33 ab | 40.00 a | 43.25 bc | 211.75 a | 33.23 a | 3.25 ab | 3.58 a | 36.02 ab | 99.38 a |
| 1500 mg/L | NMWT (T5) | 37.00 de | 36.58 bcd | 40.83 d | 189.08 c | 30.00 c | 2.78 bcd | 2.72 b | 27.92 cd | 85.15 bc |
| 1500 mg/L | MWT (T6) | 38.25 cd | 38.75 ab | 41.91 cd | 197.75 b | 31.26 b | 3.25 ab | 2.77 b | 33.85 ab | 81.92 bc |
| 2000 mg/L | NMWT (T7) | 36.50 e | 35.08 d | 43.00 bc | 161.75 de | 26.10 de | 2.34 d | 1.53 cd | 20.38 ef | 75.46 cd |
| 2000 mg/L | MWT (T8) | 39.66 abc | 39.41 a | 43.25 bc | 168.33 d | 27.03 d | 2.65 cd | 2.06 c | 23.92 de | 86.32 b |
| 2500 mg/L | NMWT (T9) | 35.58 e | 43.03 d | 43.83 ab | 136.50 f | 22.53 f | 1.33 e | 0.60 e | 8.74 g | 68.51 d |
| 2500 mg/L | MWT (T10) | 36.50 e | 35.83 cd | 42.50 bc | 158.50 e | 25.63 e | 1.46 e | 1.25 d | 15.40 f | 80.43 bc |

\* Means with different superscripts in a column are significantly different at (P<0.05), using Duncan’s Multiple Rang Test.