Bitter gourd

CT Small segment at Durg CG.

Objective: To find out the hybrid against the US 1315/ in Small segment.

Total hybrids 7 with 1 check and in 2 replications, total 16 entries

DOS: 07/06/18

1st picking: 24/07/18

Outcome: we have done 9 pickings from this trial. No major disease & pest affected the trial till the end. All entries have very good vine vigour. Towards the end high rainfall and Downey mildew affected the crop severely so that we have to close trial after 9 picking.

So on the basis of yield CT 3 from R1 and CT 10 from R2 is selected. The next entry which compete it is CT 2. In initial 4 pickings CT 2 has clear yield advantage over CT 3. Vine vigour of CT 2 is slightly lower than CT 3. Ct 5 shows good PM tolerance till the end.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Entry # | Total | | | | | | | |
| No of fruits | | Yield (Gms) | Entry # | NO. of fruits | | Yield Gms | |
| CT 1 | 1083 |  | 33270 | CT 9 | 535 |  |  | 28690 |
| CT 2 | 1218 |  | 46770 | CT 10 | 1383 |  |  | 57400 |
| CT 3 | 1133 |  | 47130 | CT 11 | 804 |  |  | 26380 |
| CT 4 | 1033 |  | 43950 | CT 12 | 1160 |  |  | 38940 |
| CT 5 | 385 |  | 21640 | CT 13 | 1408 |  |  | 41280 |
| CT 6 | 1325 |  | 40290 | CT 14 | 1136 |  |  | 40000 |
| CT 7 | 844 |  | 28600 | CT 15 | 1204 |  |  | 44690 |
| CT 8 | 1086 |  | 37680 | CT 16 | 1005 |  |  | 37820 |

CT Small segment at Rajnandgaon CG.

Objective: To find out the hybrid against the US 1315/ in Small segment.

Total hybrids 7 with 1 check and in 2 replications, total 16 entries

DOS: 08/06/18

DOT: 25/06/18

1st picking: 07/08/18

Outcome: we have done 6 pickings from this trial. No major disease & pest affected the trial till the end. All entries have very good vine vigour. Towards the end high rainfall and Downey mildew affected the crop severely so that we have to close trial after 6 picking.

Due to the germination issue here we cannot maintain 40 plant populations, so here we have 20 plants per entry and only 1 replication.

So on the basis of yield CT 3 is selected. The next entry which compete it is CT 6.

|  |  |  |
| --- | --- | --- |
| Entry # | Total | |
| No of fruits | Fruit wt (g) |
| CT 1 | 348 | 14080 |
| CT 3 | 424 | 18980 |
| CT 4 | 333 | 16520 |
| CT 6 | 503 | 19460 |
| CT 7 | 379 | 16060 |
| CT 8 | 351 | 13220 |

CT Small segment at Bargarh Odisha.

Objective: To find out the hybrid against the US 1315/ in Small segment.

Total hybrids 7 with 1 check and in 2 replications, total 16 entries

DOS: 22/05/18

1st picking: 08/07/18

Outcome: we have done 10 pickings from this trial. No major disease & pest affected the trial till the end. All entries have very good vine vigour. Towards the end high rainfall and Downey mildew affected the crop severely and vines are also merged with each other. So that we had to close trial after 10 picking.

So on the basis of yield CT 3 from R1 and CT 10 from R2 is selected. The next entry which compete it is CT 4. Towards the end of trial CT 4 gives good yield and farmer like it. In initial 4 pickings CT 2 has clear yield advantage over CT 3. Vine vigour of CT 2 is slightly lower than CT 3.

When we do farmer panel visit and also distributor visit they also pick ct 3, ct 10 and then ct 2.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Entry # | Initial Plant Population | Total | | Total | | | | | |
| No of fruits | Fruit wt (g) | Entry # | Initial Plant Population | | No of fruits | Fruit wt (g) | |
| CT 1 | 42 | 5394 | 185123 |  |  |  | 1855 | | 158423 | |
| CT 2 | 41 | 6550 | 261022 | CT 10 | 38 |  | 5604 | | 247547 | |
| CT 3 | 42 | 6103 | 278599 | CT 11 | 39 |  | 4395 | | 179443 | |
| CT 4 | 40 | 5941 | 270490 | CT 12 | 35 |  | 5120 | | 194702 | |
| CT 5 | 41 | 2231 | 203317 | CT 13 | 30 |  | 2879 | | 85693 | |
| CT 6 | 38 | 5751 | 193002 | CT 14 | 38 |  | 5122 | | 192708 | |
| CT 7 | 41 | 5019 | 199008 | CT 15 | 38 |  | 3634 | | 169059 | |
| CT 8 | 40 | 5214 | 207847 | CT 16 | 35 |  | 4025 | | 135845 | |

CT Small segment at Bargarh Odisha.

Objective: To find out the hybrid against the US 1315/ in Small segment.

Total hybrids 7 with 1 check and in 2 replications, total 16 entries but CT 9 has no germination so total entries are 15.

DOS: 13/06/18

1st picking: 05/08/18

Outcome: we have done 5 pickings from this trial. DM & LCV affected the trial very high. All entries have avg vine vigour. High rainfall and Downey mildew affected the crop severely. Trial is running.

So on the basis of yield CT 2 from R1 and CT 10 from R2 is selected. In initial 4 pickings CT 2 has clear yield advantage over CT 3. Vine vigour of CT 2 is slightly lower than CT 3. LCV tolerance of CT 2 is lower than CT 3.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | |  | Virus Incidence | |  | | | Virus Incidence | | | | |
| Entry # | Total | | | 1st picking | 4th picking | Entry # | Total | | 1st | | 4th | | |
| No of fruits | Fruit wt (g) | | No of plants affected | No of plants affected | No of fruits | Fruit wt (g) | No of plants | | No of plants | | |
| CT 1 | 417 | 12384 | | 11 | 15 | CT 9 | No Germination | |  | 0 | | 0 | |  | | |
| CT 2 | 807 | 24530 | | 21 | 22 | CT 10 | 720 | 19022 | 9 | | | | 14 |  | |
| CT 3 | 629 | 18730 | | 18 | 19 | CT 11 | 580 | 14245 | 11 | | | | 11 |
| CT 4 | 516 | 15068 | | 12 | 14 | CT 12 | 550 | 15415 | 8 | | | | 12 |
| CT 5 | 175 | 10330 | | 18 | 20 | CT 13 | 646 | 14493 | 10 | | | | 10 |
| CT 6 | 612 | 17370 | | 14 | 17 | CT 14 | 457 | 12583 | 8 | | | | 8 |
| CT 7 | 673 | 18600 | | 11 | 19 | CT 15 | 474 | 14812 | 7 | | | | 7 |
| CT 8 | 449 | 16965 | | 12 | 13 | CT 16 | 560 | 15660 | 8 | | | | 9 |  |  | | |  | 9 |



 