**Selection of castor parents with high harvest index: (2014-15)**

During 2013-14,Promising parents for high harvest index (48-1, DCS 89, DCS 109, DCS 119, k12-86-2, k12-91-2, k12-98-3, k12-1555-1, M 571, DCH-1566) were identified. Selected three breeding lines along with two checks were sown in four replications during 2014-15. Seedling vigor was more in K12-86-2 followed by K12-98-3. Primary, tertiary, total seed yield, TDM and HI did not differ among the breeding lines except secondary seed yield which was significantly higher in K12-86-2 and K12-98-3 (Table:14).

Table 14: TDM, seed yield and HI of breeding lines

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Genotype** | **Seedling**  **vigour**  **(g/pl.)** | **Seed yield (g/plant)** | | | | **TDM at harvest (g/pl.)** | **HI (%)** |
| **Primary** | **Secondary** | **Tertiary** | **Total** |
| DCH519 | 0.52 | 35.6 | 35.3 | 27.2 | 98.1 | 523 | 18.9 |
| K12-86-2 | 1.17 | 23.5 | 69.2 | 53.6 | 146.3 | 443 | 33.7 |
| K12-91-2 | 0.69 | 21.2 | 59.6 | 51.1 | 131.9 | 475 | 27.7 |
| K12-98-3 | 0.88 | 29.8 | 72.0 | 45.6 | 147.4 | 487 | 30.4 |
| 48-1 | 0.74 | 32.5 | 80.2 | 60.9 | 173.6 | 557 | 31.3 |
| Mean | 0.80 | 28.5 | 63.2 | 47.7 | 139.4 | 497 | 28.4 |
| SEm ± | 0.047 | 5.76 | 5.94 | 3.41 | 8.68 | 19.65 | 2.51 |
| CD p:0.05 | 0.15 | NS | 19.4 | 11.1 | 28.3 | 64.08 | 8.19 |
| CV(%) | 10.10 | 35.0 | 16.3 | 12.4 | 10.8 | 6.9 | 15.31 |

None of these parental lines out yielded check variety 48-1. K12-86-2 recorded 33.7% HI followed by 48-1 (31.3) and K12-98-3 (30.4%).