**Supplementary Table 1**: Library information of *Striga hermonthica*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sample** | **Coordinates (Lat/Long)a** | **Host cropb** | **Cropping pattern last 3 yearsc** | **Raw readsd** | **Trimmed readse** |
| **Sorghum\_1** | 9.36269N  5.02535E | Sorghum | Sorghum  Sorghum  Sorghum | 7749848 | 7381916 |
| **Sorghum\_2** | 9.32829N  5.06996E | Sorghum | Maize Sorghum intercrop  Maize Sorghum intercrop  Maize Sorghum intercrop | 6128858 | 5409782 |
| **Sorghum\_3** | 9.32290N  5.13197E | Sorghum | Maize sorghum intercrop  Maize sorghum intercrop  Maize sorghum intercrop | 6596530 | 6201402 |
| **Sorghum\_4** | 9.32254N  5.13226E | Sorghum | Sorghum, millet and cowpea  Cowpea intercrop  Cowpea | 6125902 | 5548664 |
| **Maize\_1** | 9.34642N  5.01783E | Maize | Maize cowpea intercrop  Cowpea  Cowpea | 5143722 | 4667084 |
| **Maize\_2** | 9.28050N  5.02904E | Maize | Maize cowpea intercrop  Cowpea  Cowpea | 7505904 | 6819876 |
| **Sorghum\_5** | 9.26904N  5.00664E | Sorghum | Sorghum cowpea intercrop  Sorghum  Sorghum | 4718860 | 4280162 |
| **Maize\_3** | 9.26473N  4.99565E | Maize | Maize cowpea intercrop  Maize  Maize millet intercrop | 3658470 | 3329272 |
| **Sorghum\_6** | 9.26962N  4.05537E | Sorghum | Sorghum groundnut intercrop (only information for collection year) | 3751594 | 3524516 |
| **Sorghum\_7** | 9.31118N  5.10477E | Sorghum | Sorghum  Maize  Maize | 2837888 | 2694360 |
| **Sorghum\_8** | 9.32479N  5.16154E | Sorghum | Sorghum cowpea intercrop Cassava  Cowpea | 3453868 | 3183438 |
| **Sorghum\_9** | 9.32416N  5.14833E | Sorghum | Sorghum maize intercrop  Sorghum  Sorghum | 3571452 | 3252784 |
| **Sorghum\_10** | 9.32929N  5.12430E | Sorghum | Sorghum  Cowpea  Maize cowpea intercrop | 3758182 | 3531636 |
| **Sorghum\_11** | 9.27760N  5.05475E | Sorghum | Sorghum cowpea intercrop  Melon  Groundnut | 2899658 | 2741804 |

a GPS location of the samples populations

b Host crop where *Striga hermonthica* was growing on in that populations

cCrops grew in the past three years (first entry represents moment of collection)

dRaw reads obtained for each population

eClean reads that remained after quality check in each population