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| Table S1Geographical location, source and year of collection of soil samples from wheat fields |
| **S. No.** | **Crop**  | **Collection site(s)** |  | **Flag smut symptoms presence on plants parts**  | **Year of soil sampling**  |
| 1 | Wheat  | Bibi Wala, Punjab |  | Leaf  | 2019 |
| 2 | Wheat  | Kutlupur, Punjab |  | Leaf , stem | 2019 |
| 3 | Wheat  | Durgapura, Rajasthan |  | Leaf  | 2019 |
| 4 | Wheat  | Bikaner, Rajasthan  |  | Leaf  | 2019 |
| 5 | Wheat  | UAS Nagar, Uttrakhand |  | Leaf  | 2019 |
| 6 | Wheat  | Pattharchatta, Uttrakhand |  | Leaf, stem | 2019 |
| 7 | Wheat  | Una, Himachal Pradesh |  | Leaf, stem | 2019 |
| 8 | Wheat  | Kangra, Himachal Pradesh |  | Leaf, stem | 2019 |
| 9 | Wheat  | Karnal, Haryana |  | Leaf, stem | 2019 |
| 10 | Wheat  | Gaddou Pur, Uttar Pradesh |  | Leaf, stem | 2019 |
| 11 | Wheat  | Saraiya, Uttar Pradesh |  | Leaf  | 2019 |