**Table S6. Locations of** ***P. deltoides* germplasms resources**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Population** | **Sample number** | **Information of Germplasms origin** | **Latitude(N)** | **Longitude(W)** |
| Mis | 6 | Missouri, USA | 89.54 | 37.30 |
| Iow | 18 | Iowa, USA | 93.10 | 41.88 |
| Was | 17 | Washington, USA | 119.08 | 46.21 |
| Que | 160 | Quebec, Canada | 71.99 | 46.57 |
| Lou | 108 | Louisiana, USA | 91.45 | 32.05 |
| Ten | 75 | Tennessee, USA | 89.60 | 35.86 |
| Total | 384 | -- |  |  |

‘Mis’, ‘Iow’, ‘Was’, ‘Que’, ‘Lou’, ‘Ten’: different provenance populations respectively.