S1 Table. Geographic locations of all *T. arvense* populations.

| Region           | Population | N° lines | Closest town | Latitude   | Longitude  | Altitude (m) |
|------------------|------------|----------|--------------|------------|------------|--------------|
| France           | FR_01      | 5        | Les Rives    | 43.8508071 | 3.282875   | 743          |
| France           | FR_02      | 4        | Mostuéjouls  | 44.2385639 | 3.1596174  | 848          |
| France           | FR_03      | 6        | Miscon       | 44.6281220 | 5.523118   | 821          |
| South Germany    | DE_01      | 6        | Tübingen     | 48.5402860 | 9.034686   | 458          |
| South Germany    | DE_02      | 6        | Löffingen    | 47.8766732 | 8.427379   | 708          |
| South Germany    | DE_03      | 6        | Braunlingen  | 47.9202121 | 8.434509   | 769          |
| South Germany    | DE_04      | 6        | Balingen     | 48.2802594 | 8.837293   | 539          |
| South Germany    | DE_06      | 6        | Hirrlingen   | 48.4121117 | 8.883562   | 431          |
| South Germany    | DE_07      | 6        | Empfingen    | 48.3843302 | 8.729566   | 515          |
| South Germany    | DE_08      | 4        | Wittershausen | 48.3252288 | 8.643947   | 536          |
| The Netherlands  | NL_01      | 6        | Wageningen   | 51.9550616 | 5.637251   | 8            |
| The Netherlands  | NL_02      | 4        | Veenendaal   | 52.0403204 | 5.552360   | 8            |
| The Netherlands  | NL_03      | 6        | Herwen       | 51.8861228 | 6.131671   | 10           |
| North Germany    | DE_09      | 6        | Halle        | 51.5138186 | 11.920181  | 83           |
| North Germany    | DE_10      | 6        | Schuttersdorf| 51.5626351 | 11.701825  | 187          |
| North Germany    | DE_11      | 6        | Eisleben     | 51.5409550 | 11.59633   | 221          |
| North Germany    | DE_12      | 6        | Halle        | 51.5457637 | 11.957506  | 90           |
| North Germany    | DE_13      | 6        | Plötz        | 51.6362233 | 11.936652  | 82           |
| North Germany    | DE_14      | 6        | Rothen       | 51.7079562 | 12.007172  | 88           |
| North Germany    | DE_15      | 6        | Bossdorf     | 52.0151260 | 12.583979  | 151          |
| North Germany    | DE_16      | 6        | Coswig       | 51.8852458 | 12.393296  | 55           |
| South Sweden     | SE_01      | 6        | Lund         | 55.7224293 | 13.184996  | 48           |
| South Sweden     | SE_02      | 6        | Lund         | 55.7316952 | 13.252458  | 74           |
| South Sweden     | SE_03      | 6        | Lund         | 55.7729103 | 13.257121  | 21           |
| South Sweden     | SE_04      | 6        | Eslov        | 55.7483891 | 13.384524  | 24           |
| South Sweden     | SE_05      | 6        | Veberöd      | 55.6372295 | 13.500471  | 34           |
| South Sweden     | SE_06      | 6        | Vresel       | 55.6676921 | 13.623429  | 20           |
| South Sweden     | SE_07      | 6        | Vanstad      | 55.622051  | 13.835959  | 81           |
| South Sweden     | SE_08      | 5        | Onslunda     | 55.6085961 | 14.060897  | 108          |
| Central Sweden   | SE_09      | 5        | Stockholm    | 59.3695897 | 17.995108  | 9            |
| Central Sweden   | SE_10      | 6        | Sollentuna   | 59.4340638 | 17.921854  | 23           |
| Central Sweden   | SE_11      | 6        | Rotebro      | 59.4773200 | 17.853370  | 31           |
| Central Sweden   | SE_12      | 5        | Uppsala      | 59.8191923 | 17.653573  | 26           |
| Central Sweden   | SE_13      | 6        | Uppsala      | 59.8447498 | 17.510119  | 30           |
| Central Sweden   | SE_14      | 6        | Uppsala      | 59.900815  | 17.599931  | 26           |
| Central Sweden   | SE_15      | 6        | Sigtuna      | 59.652574  | 17.688470  | 15           |