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Abstract

Data for thirteen morphological and agronomic attributes of a collection of 275 accessions of the genus *Teramnus* grown in the field at Samford Research Station (latitude 27°22'S) are presented together with provenance data as an aid to research workers intending to carry out further evaluation or studies on this genus. The collection included seven of the eight species recognised in the genus.

Keywords

Teramnus, tropical legume, numerical analysis, characterisation

Introduction

The tropical legume genus *Teramnus* is closely allied to *Glycine* but can be distinguished from it by its alternately aborted or sterile stamens, and seed pods with a persistent style lengthened to form a right-angled hook at the apex (Verdcourt 1970). The genus has a pantropical distribution and occurs from approximately 23°N (India) to 29°S (South Africa). There are eight species in the genus - *T. beuttneri*, *T. flexilis*, *T. labialis*, *T. micans*, *T. mollis*, *T. repens*, *T. uncinatus* and *T. volubilis*.

Teramnus spp. have not been used widely as forages although *T. labialis* has been used as a component in perennial pastures in Cuba (Funes and Perez 1976), where limited evaluation has been carried out (Funes and Yepes 1974; Febles and Funes 1978). The genus has also been studied in Australia (Evans 1967) and Florida (Williams 1988).

The Australian Tropical Forages Genetic Resource Centre (ATFGRC) has assembled a collection of 275 accessions of *Teramnus*. With the exception of *T. beuttneri*, all species in the genus are represented in the collection. As a first step in determining the extent of variation in the genus and identifying accessions for evaluation in different environments, it is necessary to identify groups with similar attributes. Several authors have successfully used pattern analysis of morphological and agronomic data to identify groups and core sets of accessions to facilitate further evaluation (Burt *et al.* 1971; Edye *et al.* 1973).

Pengelly and Eagles (1996) used a numerical approach to classify the ATFGRC collection of *Teramnus*. The present paper provides provenance data of the 275 accessions classified and attributes of the groups resulting from the analysis. These data are of potential value to researchers concerned with selection of specific accessions for further study.

Materials and methods

Cultural conditions

Scarified seed of each of 275 accessions was germinated on 1% agar before being transferred to 6 cm peat pots in a glasshouse at the CSIRO Pasture Research Station, Samford (27°22'S and 152°53'E). The sand - peat potting medium contained a basic fertiliser mix and pH was adjusted to between 5.5 and 6.0. Seedlings were inoculated with *Bradyrhizobium* sp. strain CB756.

Seedlings were transplanted to the field in November 1988, approximately 45 days after sowing (DAS). The soil was an alluvial-prairie intergrade, the pH in the surface 10 cm was 5.6 to 6.0 increasing with depth to pH 7.5 at 1 m. P, K and Ca in the surface profile were adequate for normal plant growth (C.H. Thompson pers. comm.). The altitude at the site was ca. 30 m.

Table 1. Meteorological data for Samford Research Station, for the period November 1988 to October 1989.

| | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Total rainfall (mm) | 34 | 297 | 65 | 94 | 140 | 590 | 209 | 25 | 53 | 48 | 19 | 40 |
| Evaporation (mm) | 215 | 157 | 170 | 120 | 107 | 96 | 60 | 64 | 79 | 101 | 147 | 168 |
| Mean max temp (°C) | 29.7 | 28.5 | 28.9 | 26.9 | 27.4 | 25.8 | 23.2 | 20.1 | 19.1 | 20.8 | 24.7 | 28.4 |
| Mean min temp (°C) | 14.6 | 18.7 | 18.3 | 18.1 | 18.2 | 16.7 | 14.2 | 9.6 | 8.1 | 5.2 | 7.8 | 13.0 |

Ten plants of each accession were planted on weed control matting, 4 x 1.8 m, with 70 cm between rows of matting. Seedlings were planted at 50 x 50 cm spacings. No fertiliser was applied either before or after planting. The planting was not replicated.

Relevant climatic data for the period November 1988 to October 1989 were recorded c. 400 m from the experimental site (Table 1). The first frost was on July 14, and 13 frosts were recorded for the winter of 1989. The lowest minimum grass temperature recorded was -3°C. As the experimental site was at a lower elevation than the meteorological station, grass temperature would have been lower than the -3°C recorded.

Table 2. Morphological and agronomic attributes presented for 275 accessions of *Teramnus*.

| | Coding | Observation |
|--|--------|--|
| <i>Ordinal attributes</i> | | |
| Stolons | St | 0 (no stolons) - (4) strongly stoloniferous |
| Frost damage | FrD | 1 (no damage) - 5 (plants dead); 6 (annuals) |
| Adaxial leaflet indumentum | LHDA | 0 (glabrous) - 4 (very dense) |
| <i>Numeric attributes</i> | | |
| Cotyledon node height (mm) | CNH | |
| Canopy depth (cm) | CaD | Mean height of canopy |
| Days to first flower | DFFI | Days after sowing (DAS) |
| Terminal leaflet length (mm) | TLfLth | |
| Terminal leaflet width (mm) | TLfWth | |
| Terminal leaflet petiolule length (mm) | TLfPet | |
| Calyx teeth (number) | CalTth | |
| Pod length (mm) | PdLth | |
| Pod width (mm) | PdWth | |
| Seed weight (mm/100 seeds) | SdWt | |

Attributes

Cotyledon node height, length and width were measured in the glasshouse 20 DAS. Internode length, number of nodes and the number of branches on the main stem were measured 40 DAS. Data for these attributes were the means of 3 plants taken at random for each accession. All other plant measurements were taken in the field.

The data presented here are of two attribute types: ordinal and numeric. Ordinal attributes imply an order only, the coded value "3" being larger than "1", but not necessarily three times larger than "1", e.g. stolon and frost ratings. Numeric attributes are those which were assessed on a linear scale and recognise a true zero value, e.g. canopy depth and leaf dimensions. Table 2 lists the 13 attributes which were most discriminatory in the classification analysis.

Results

Provenance data and discriminatory data, based on the classificatory analysis

Provenance data for the 275 accessions together with data for those attributes which contributed most to the classification are listed in Appendix 1. Accessions are listed by species and group number, the group number referring to those groups as established by numerical classification and described by Pengelly and Eagles (1996). The accession number is, in most cases, the Commonwealth Plant Introduction (CPI) number. The prefix "Q" denotes accession numbers issued by the Queensland Department of Primary Industries. Origin generally denotes the country of original collection. Where the country of origin is in parentheses, these denote that the country is a donor country, and not necessarily the country to which the accession is native.

Species and group characteristics

Teramnus flexilis. Plants with a vigorous, twining, prostrate habit and some stolons. They were late flowering and produced large pods with very large seeds. Leaflets were large with few hairs on the upper surface, and terminal leaflets had very long petiolules.

Teramnus labialis, Group 1. Strongly stoloniferous, late flowering plants with a prostrate and twining habit. The heights of the cotyledonary nodes were low, leaflets were small and glabrous, the terminal leaflets having very short petiolules. Very small seeds were produced in narrow pods.

Teramnus labialis, Group 2. Low yielding plants with a prostrate twining habit and few stolons. They were early flowering and were moderately susceptible to frost with some accessions dying. The upper surface of the leaflets was glabrous and pods were large seeded.

Teramnus labialis, Group 3. Very low yielding plants with a prostrate twining habit and few, if any, stolons. They were late flowering and moderately susceptible to frost. Leaflets were very small. Pods were small and contained a few large seeds.

Teramnus labialis, Group 4. Plants were low yielding and had a prostrate twining habit, with few stolons. Cotyledon node heights were very low and the plants were very early flowering. Large seeds were produced in short pods.

Teramnus labialis, Group 5. A large diverse group of stoloniferous accessions with a prostrate twining habit. Seedlings had low cotyledon node heights. Generally they were early flowering, and plants were moderately susceptible to frost.

Teramnus labialis, Group 6. Higher yielding plants with a vigorous twining habit and many stolons. Cotyledon node heights were low. Plants were mid-season to late flowering. Leaflets had few hairs on the upper surface.

Teramnus labialis, Group 7. Plants of average yield with a prostrate, twining habit and many stolons. Cotyledon node heights were high. They were early flowering, with large pods and seeds.

Teramnus labialis, Group 8. Late flowering plants of average yield with a prostrate twining habit. Seeds were relatively small and frost damage was considerable.

Teramnus micans. One accession only. Plants were very high yielding, were strongly stoloniferous and had an aggressive scrambling habit. Cotyledon node heights were low. Leaflets were very long and hairy. Plants were late flowering; pods were broad and the seeds large.

Teramnus mollis. Low yielding plants with a prostrate twining habit and lacking stolons. These accessions had low cotyledon node heights and suffered considerable frost damage. Plants were early flowering and some appeared to be annuals. Leaflets were small and glabrous.

Teramnus repens, Group 1. These plants were very early flowering annuals with a prostrate twining habit and many stolons. Cotyledon node heights were low. Leaflets were small and hairy, the terminal leaflets having short petiolules.

Teramnus repens, Group 2. Low yielding, early flowering plants, strongly stoloniferous and with a prostrate scrambling habit. Cotyledon node heights were very low. Leaflets were small, the terminal leaflets having very short petiolules. Pods and seeds were very small.

Teramnus uncinatus, Group 3. Two accessions only with a prostrate rather open twining habit and lacking stolons. Cotyledon node heights were very low. Flowering occurred mid-season. Terminal leaflet petiolules were very short as were the pods. Seeds were small.

Teramnus uncinatus, Group 6. High yielding plants with an aggressive twining habit but with few stolons. They were mid-season to late flowering and suffered considerable frost damage. Cotyledon node heights were high. Leaflets were long and hairy.

Teramnus uncinatus, Group 7. These plants were late flowering, high yielding, and had an aggressive twining habit and some stolons. Cotyledon node heights were low. Frost damage was high. Leaflets were large, the upper surface having few hairs. Pods were very long and contained large seeds.

Teramnus uncinatus, Group 8. Very high yielding, late flowering plants with an aggressive twining habit and few stolons. Cotyledon node heights were high. Leaflets were large and hairy. Seed pods were long and the seeds small.

Teramnus volubilis. Very low yielding, stoloniferous plants with a prostrate scrambling habit. The seedlings had very low cotyledon node heights. Leaflets were small and glabrous on the upper surface. Pods were small and contained very small seeds.

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Appendix 1. Provenance data and morphological-agronomic characteristics which contributed most in the classification of a collection of 275 accessions of *Teramnus*.

| Accession No. | Species | Gp | Origin | Lat. | Long. | Alt. (m) | Rain (mm) | pH | CNH (mm) | CaD (cm) | DFF1 | St | FrD | TLfLth (mm) | TLfWth (mm) | TLfPet (mm) | LHDAd | CalTth | PdLth (mm) | PdWth (mm) | SdWt (mg/100) |
|---------------|----------|----|-------------|--------|---------|----------|-----------|-----|----------|----------|------|----|-----|-------------|-------------|-------------|-------|--------|-----------------|------------|---------------|
| 105831 | flexilis | 10 | Indonesia | 9.40S | 124.28E | 320 | | 5.5 | 14 | 20 | 204 | 2 | 3 | 81 | 56 | 18 | 1 | 4 | nc ¹ | nc | nc |
| 105891 | flexilis | 10 | Indonesia | 9.40S | 119.43E | 490 | | 8.0 | 10 | 14 | 196 | 2 | 4 | 79 | 49 | 16 | 1 | 4 | nc | nc | 1737 |
| 105897 | flexilis | 10 | Indonesia | 9.32S | 119.02E | 80 | | 7.5 | 12 | 28 | 193 | 2 | 4 | 95 | 58 | 26 | 1 | 4 | nc | nc | nc |
| 108660 | flexilis | 10 | Indonesia | 8.29S | 116.33E | 480 | | 7.5 | 10 | 12 | 193 | 2 | 4 | 84 | 54 | 20 | 2 | 4 | 56 | 4.8 | 1817 |
| 108661 | flexilis | 10 | Indonesia | 8.27S | 116.35E | 460 | | 8.0 | 10 | 12 | 193 | 2 | 4 | 84 | 54 | 18 | 1 | 4 | 56 | 4.6 | 1532 |
| 108715 | flexilis | 10 | Indonesia | 8.42S | 117.25E | 340 | | 7.5 | 12 | 15 | 178 | 2 | 4 | 80 | 55 | 19 | 1 | 4 | 60 | 4.4 | 1702 |
| 20743 | labialis | 1 | (Kenya) | | | | | | 3 | 12 | 144 | 3 | 4 | 48 | 25 | 4 | 0 | 5 | 48 | 2.4 | 340 |
| 25339 | labialis | 1 | (Kenya) | | | | | | 3 | 20 | 186 | 4 | 4 | 42 | 20 | 4 | 0 | 5 | 47 | 2.3 | nc |
| 43792 | labialis | 1 | Zambia | | | | | | 10 | 10 | 159 | 3 | 4 | 42 | 28 | 4 | 0 | 5 | 46 | 2.4 | 386 |
| 43793 | labialis | 1 | Zambia | | | | | | 3 | 12 | 192 | 3 | 4 | 43 | 31 | 4 | 0 | 5 | 50 | 2.4 | 470 |
| 45261 | labialis | 1 | (Venezuela) | | | | | | 5 | 11 | 186 | 2 | 3 | 36 | 26 | 4 | 0 | 5 | 57 | 2.4 | 600 |
| 52799 | labialis | 1 | Tanzania | 3.20S | 35.35E | 1380 | 900 | | 3 | 8 | 186 | 4 | 3 | 25 | 16 | 4 | 0 | 5 | 40 | 2.4 | 279 |
| 60376 | labialis | 1 | Uganda | 0.10N | 31.57E | 1000 | 1075 | 6.5 | 4 | 20 | 200 | 3 | 4 | 32 | 22 | 2 | 0 | 5 | 40 | 2.1 | 270 |
| 60377 | labialis | 1 | Tanzania | 3.20S | 36.40E | 1394 | 1000 | 7.0 | 2 | 22 | 119 | 4 | 4 | 33 | 21 | 2 | 0 | 5 | 46 | 2.4 | 358 |
| 60381 | labialis | 1 | Zimbabwe | 19.50S | 28.16E | 2273 | 750 | 6.0 | 3 | 10 | 183 | 3 | 4 | 32 | 20 | 4 | 0 | 5 | 34 | 2.4 | 404 |
| 67226 | labialis | 1 | Uganda | 0.27N | 33.14E | 1200 | 1300 | | 7 | 20 | 189 | 3 | 4 | 33 | 24 | 2 | 0 | 5 | 42 | 2.0 | 287 |
| 77002 | labialis | 1 | Zambia | 15.39S | 28.19E | | | | 6 | 13 | 189 | 4 | 3 | 43 | 29 | 2 | 0 | 5 | 54 | 2.6 | 394 |
| 114122 | labialis | 1 | Ethiopia | 11.49N | 39.34E | 2900 | 1000 | 8.0 | 4 | 13 | 143 | 3 | 3 | 41 | 28 | 5 | 0 | 5 | 46 | 2.2 | 388 |
| 114123 | labialis | 1 | Ethiopia | 11.32N | 39.37E | 2960 | 1200 | 8.0 | 5 | 9 | 137 | 3 | 3 | 56 | 26 | 4 | 0 | 5 | 50 | 2.5 | 394 |
| 114124 | labialis | 1 | Ethiopia | 11.32N | 39.36E | 3000 | 1200 | 8.0 | 7 | 23 | 163 | 3 | 3 | 44 | 20 | 5 | 0 | 5 | 44 | 2.4 | 317 |
| 114125 | labialis | 1 | Ethiopia | 11.13N | 39.41E | 2300 | 1200 | 7.0 | 5 | 12 | 165 | 3 | 4 | 43 | 27 | 4 | 0 | 5 | 52 | 2.6 | 382 |
| 114126 | labialis | 1 | Ethiopia | 10.47N | 39.50E | 1450 | 950 | 7.0 | 4 | 14 | 143 | 3 | 4 | 46 | 26 | 7 | 0 | 5 | 48 | 2.4 | 295 |
| 114127 | labialis | 1 | Ethiopia | 8.45N | 36.28E | 1900 | 1800 | 8.0 | 3 | 13 | 184 | 2 | 4 | 46 | 25 | 4 | 0 | 5 | 54 | 2.5 | 301 |
| 114128 | labialis | 1 | Ethiopia | 8.35N | 38.00E | 2080 | 1200 | 6.0 | 3 | 12 | 184 | 2 | 4 | 39 | 22 | 4 | 0 | 5 | 49 | 2.4 | 356 |
| 114130 | labialis | 1 | Ethiopia | 6.58N | 40.31E | 2090 | 950 | 8.0 | 5 | 7 | 137 | 2 | 3 | 42 | 23 | 6 | 0 | 5 | 44 | 2.7 | 511 |
| 114132 | labialis | 1 | Ethiopia | 6.04N | 37.36E | 1200 | 700 | 8.0 | 7 | 20 | 159 | 2 | 3 | 46 | 33 | 4 | 0 | 5 | 48 | 2.7 | 444 |
| 114134 | labialis | 1 | Tanzania | | | 1750 | 1000 | | 6 | 15 | 185 | 3 | 3 | 36 | 24 | 3 | 0 | 5 | 55 | 2.5 | 408 |
| 114135 | labialis | 1 | Tanzania | | | 1950 | | | 5 | 24 | 118 | 3 | 3 | 43 | 24 | 4 | 0 | 5 | 44 | 2.4 | 356 |

| Accession No. | Species | Gp | Origin | Lat. | Long. | Alt. (m) | Rain (mm) | pH | CNH (mm) | CaD (cm) | DFFl | St | FrD | TLfLth (mm) | TLfWth (mm) | TLfPet (mm) | LHDAd | CalTth | PdLth (mm) | PdWth (mm) | SdWt (mg/100) |
|---------------|----------|----|------------|--------|---------|----------|-----------|-----|----------|----------|------|----|-----|-------------|-------------|-------------|-------|--------|------------|------------|---------------|
| 33037 | labialis | 2 | Jamaica | 17.58N | 76.48W | | | | 8 | 9 | 144 | 1 | 3 | 36 | 24 | 7 | 0 | 5 | 43 | 3.2 | 695 |
| 70388 | labialis | 2 | St Kitts | 17.25N | 62.45W | | | | 7 | 12 | 130 | 3 | 4 | 46 | 30 | 11 | 0 | 5 | 40 | 3.0 | 644 |
| 73529 | labialis | 2 | St Vincent | 12.15N | 60.10W | | | | 6 | 12 | 130 | 3 | 4 | 49 | 32 | 10 | 0 | 5 | 48 | 3.4 | 640 |
| 77249 | labialis | 2 | Guam | 13.28N | 144.45E | 10 | 2175 | | 8 | 8 | 182 | 0 | 4 | 40 | 22 | 5 | 0 | 5 | 48 | 3.3 | 735 |
| 77250 | labialis | 2 | Guam | 13.28N | 144.45E | 5 | 2175 | | 7 | 8 | 189 | 1 | 4 | 46 | 26 | 6 | 0 | 5 | 47 | 3.3 | 788 |
| 84138 | labialis | 2 | India | 18.03N | 78.15E | | | | 8 | 8 | 119 | 0 | 4 | 35 | 22 | 8 | 0 | 5 | 50 | 3.4 | 723 |
| 92011 | labialis | 2 | Cuba | | | | | | 7 | 15 | 119 | 1 | 3 | 50 | 22 | 10 | 0 | 5 | 36 | 3.2 | 419 |
| 104644 | labialis | 2 | India | 23.15N | 77.34E | 460 | 1200 | 7.5 | 6 | 20 | 101 | 2 | 4 | 64 | 42 | 12 | 0 | 5 | 54 | 3.0 | 889 |
| 104803 | labialis | 2 | India | 22.71N | 80.34E | 450 | 1420 | 6.5 | 5 | 20 | 68 | 2 | 4 | 50 | 31 | 13 | 0 | 5 | 50 | 3.3 | 834 |
| 104915 | labialis | 2 | India | 22.42N | 77.52E | 340 | 1400 | 7.0 | 5 | 14 | 79 | 1 | 4 | 50 | 36 | 10 | 0 | 5 | 58 | 3.2 | 799 |
| 104993 | labialis | 2 | India | 22.04N | 76.05E | 240 | 970 | 9.0 | 5 | 14 | 101 | 2 | 5 | 41 | 24 | 9 | 0 | 5 | 48 | 3.0 | 745 |
| 106025 | labialis | 2 | India | 20.28N | 76.57E | 350 | 890 | | 5 | 15 | 100 | 0 | 4 | 52 | 31 | 8 | 0 | 5 | 49 | 3.2 | 777 |
| 106171 | labialis | 2 | India | 17.55N | 79.49E | 250 | 950 | | 3 | 16 | 79 | 1 | 4 | 50 | 33 | 10 | 0 | 5 | 52 | 3.4 | 820 |
| 106179 | labialis | 2 | India | 17.49N | 80.01E | 240 | 950 | 8.0 | 7 | 15 | 79 | 0 | 4 | 47 | 31 | 12 | 0 | 5 | 48 | 3.6 | 801 |
| 106191 | labialis | 2 | India | 17.38N | 80.55E | 80 | 1000 | | 5 | 11 | 121 | 0 | 5 | 46 | 29 | 8 | 0 | 5 | 43 | 3.2 | 925 |
| 106216 | labialis | 2 | India | 17.10N | 81.09E | 130 | 980 | | 6 | 8 | 137 | 0 | 4 | 38 | 28 | 10 | 0 | 5 | 48 | 3.2 | 852 |
| 106219 | labialis | 2 | India | 17.04N | 81.30E | 70 | 1000 | | 8 | 16 | 137 | 0 | 5 | 50 | 32 | 10 | 0 | 5 | 46 | 3.4 | 877 |
| 106234 | labialis | 2 | India | 17.20N | 79.57E | 230 | 950 | | 7 | 4 | 109 | 0 | 5 | 36 | 26 | 8 | 0 | 5 | 35 | 3.0 | 677 |
| 106254 | labialis | 2 | India | 17.09N | 79.28E | 190 | 870 | | 5 | 12 | 79 | 0 | 5 | 42 | 29 | 8 | 0 | 5 | 47 | 3.3 | 752 |
| 106301 | labialis | 2 | India | 15.24N | 78.48E | 330 | 800 | | 5 | 11 | 114 | 1 | 5 | 54 | 33 | 9 | 0 | 5 | 54 | 3.2 | 898 |
| 106308 | labialis | 2 | India | 15.25N | 78.46E | 410 | 950 | | 6 | 8 | 128 | 0 | 4 | 38 | 23 | 10 | 0 | 5 | 38 | 3.1 | 595 |
| 106309 | labialis | 2 | India | 15.23N | 78.40E | 290 | 800 | | 5 | 7 | 114 | 0 | 4 | 46 | 28 | 8 | 0 | 5 | 40 | 3.6 | 706 |
| 106539 | labialis | 2 | India | 12.19N | 76.46E | 720 | 840 | | 5 | 12 | 176 | 1 | 4 | 44 | 26 | 10 | 0 | 5 | 39 | 2.9 | 608 |
| 106584 | labialis | 2 | India | 14.20N | 78.47E | 200 | 750 | | 4 | 9 | 123 | 1 | 4 | 39 | 24 | 8 | 0 | 5 | 40 | 3.4 | 841 |
| Q24855 | labialis | 3 | (Belgium) | | | | | | 7 | 4 | 201 | 1 | 5 | 32 | 18 | 6 | 1 | 5 | nc | nc | nc |
| 106705 | labialis | 3 | India | 8.21N | 77.00E | 10 | 1820 | | 5 | 3 | 177 | 0 | 4 | 25 | 17 | 5 | 1 | 5 | 34 | 3.0 | 647 |
| 106720 | labialis | 3 | India | 8.07N | 77.31E | 40 | 1200 | | 8 | 3 | 177 | 0 | 4 | 28 | 18 | 6 | 1 | 5 | 31 | 2.7 | 790 |
| 106729 | labialis | 3 | India | 8.11N | 77.36E | 10 | 1100 | | 5 | 3 | 178 | 0 | 4 | 27 | 18 | 7 | 0 | 5 | 38 | 3.0 | 845 |
| 108710 | labialis | 3 | Indonesia | 8.41S | 117.25E | 190 | | 8.0 | 10 | 4 | 178 | 1 | 6 | 24 | 17 | 8 | 1 | 5 | nc | nc | 725 |
| 108736 | labialis | 3 | Indonesia | 8.41S | 118.18E | 10 | | 6.5 | 7 | 5 | 175 | 0 | 4 | 30 | 22 | 6 | 1 | 5 | 36 | 2.7 | 816 |
| 108742 | labialis | 3 | Indonesia | 8.44S | 118.29E | 60 | | 6.0 | 7 | nc | 176 | 0 | 6 | 26 | 19 | 5 | 0 | 5 | nc | nc | 892 |

| Accession No. | Species | Gp | Origin | Lat. | Long. | Alt. (m) | Rain (mm) | pH | CNH (mm) | CaD (cm) | DFFl | St | FrD | TLfLth (mm) | TLfWth (mm) | TLfPet (mm) | LHDAd | CalTth | PdLth (mm) | PdWth (mm) | SdWt (mg/100) |
|---------------|----------|----|--------------|--------|--------|----------|-----------|-----|----------|----------|------|----|-----|-------------|-------------|-------------|-------|--------|------------|------------|---------------|
| 104982 | labialis | 4 | India | 22.28N | 75.55E | 440 | 1020 | | 0 | 8 | 102 | 0 | 4 | 63 | 34 | 10 | 1 | 5 | 31 | 3.2 | 795 |
| 107291 | labialis | 4 | South Africa | | | | | | 2 | 22 | 68 | 2 | 3 | 77 | 28 | 8 | 1 | 5 | 46 | 3.0 | 765 |
| 113334 | labialis | 4 | Kenya | | | | | | 2 | 14 | 105 | 1 | 4 | 72 | 26 | 9 | 1 | 5 | 30 | 3.2 | 632 |
| 114113 | labialis | 4 | (Cuba) | | | | | | 4 | 21 | 68 | 1 | 4 | 60 | 32 | 10 | 1 | 5 | 44 | 3.5 | 630 |
| 114136 | labialis | 4 | Ethiopia | 5.36N | 39.21E | 1860 | 850 | 5.5 | 2 | 10 | 109 | 0 | 4 | 72 | 29 | 10 | 1 | 5 | 37 | 3.4 | 964 |
| 23414 | labialis | 5 | (Cuba) | | | | | | 5 | 13 | 76 | 1 | 4 | 48 | 24 | 10 | 1 | 5 | 37 | 3.3 | 474 |
| 33232 | labialis | 5 | Puerto Rico | | | | | | 3 | 20 | 117 | 2 | 4 | 46 | 24 | 8 | 1 | 5 | 43 | 3.6 | 578 |
| 51602 | labialis | 5 | Ghana | | | | | | 7 | 15 | 87 | 1 | 4 | 49 | 27 | 12 | 1 | 5 | 41 | 3.4 | 610 |
| 52786 | labialis | 5 | South Africa | 25.45S | 28.12E | 1500 | 650 | | 4 | 12 | 108 | 2 | 4 | 65 | 27 | 8 | 1 | 5 | 46 | 3.0 | 757 |
| 52792 | labialis | 5 | Seychelles | 4.38S | 55.28E | | | | 5 | 18 | 144 | 2 | 4 | 49 | 28 | 11 | 1 | 5 | 40 | 3.4 | 490 |
| 52793 | labialis | 5 | Madagascar | 23.08S | 44.10E | 300 | 550 | | 7 | 15 | 110 | 1 | 4 | 48 | 29 | 8 | 1 | 5 | 41 | 3.4 | 389 |
| 52794 | labialis | 5 | South Africa | 25.45S | 28.12E | 1300 | 650 | | 6 | 15 | 102 | 2 | 4 | 76 | 28 | 10 | 1 | 5 | 48 | 2.9 | 663 |
| 52796 | labialis | 5 | Zambia | | | 600 | 750 | | 16 | 15 | 109 | 2 | 5 | 60 | 35 | 10 | 1 | 5 | 46 | 3.2 | 592 |
| 52797 | labialis | 5 | Tanzania | 6.15S | 37.15E | 500 | 800 | | 3 | 21 | 160 | 1 | 4 | 93 | 36 | 12 | 1 | 5 | 41 | 3.2 | 643 |
| 52798 | labialis | 5 | Malawi | 14.10S | 33.50E | 1140 | 875 | | 5 | 8 | 117 | 2 | 4 | 62 | 28 | 8 | 1 | 5 | 44 | 2.8 | 634 |
| 52802 | labialis | 5 | Zimbabwe | 19.25S | 32.30E | 900 | 600 | | 3 | 18 | 105 | 0 | 4 | 77 | 20 | 10 | 1 | 5 | 40 | 3.5 | 828 |
| 60371 | labialis | 5 | South Africa | 24.55S | 30.32E | 1121 | 500 | 8.0 | 5 | 22 | 130 | 2 | 3 | 66 | 33 | 10 | 1 | 5 | 54 | 3.0 | 714 |
| 60378 | labialis | 5 | Tanzania | 5.12S | 39.08E | 30 | 1250 | 8.0 | 7 | 27 | 77 | 2 | 4 | 53 | 32 | 9 | 1 | 5 | 45 | 3.3 | 536 |
| 60379 | labialis | 5 | South Africa | 29.00S | 29.53E | 1273 | 750 | 6.5 | 5 | 12 | 94 | 2 | 5 | 59 | 30 | 12 | 1 | 5 | 42 | 3.6 | 745 |
| 60380 | labialis | 5 | Zimbabwe | 20.10S | 28.27E | 1212 | 550 | 8.0 | 6 | 10 | 107 | 2 | 5 | 76 | 36 | 8 | 0 | 5 | 45 | 2.9 | 623 |
| 68645 | labialis | 5 | (Cuba) | | | | | | 7 | 8 | 73 | 1 | 4 | 55 | 20 | 9 | 1 | 5 | 35 | 3.2 | 565 |
| 70292 | labialis | 5 | (Swaziland) | | | | | | 6 | 17 | 126 | 2 | 3 | 78 | 38 | 12 | 1 | 5 | 52 | 3.2 | 711 |
| 70378 | labialis | 5 | Barbados | 13.15N | 59.33W | | | | 4 | 15 | 141 | 1 | 4 | 46 | 26 | 9 | 1 | 5 | 36 | 3.2 | 572 |
| 70379 | labialis | 5 | St Lucia | 13.50N | 60.50W | | | | 5 | 20 | 113 | 1 | 4 | 50 | 30 | 10 | 1 | 5 | 40 | 3.4 | 613 |
| 70380 | labialis | 5 | (Antigua) | | | | | | 8 | 24 | 73 | 2 | 4 | 53 | 24 | 9 | 1 | 5 | 38 | 3.4 | 572 |
| 70382 | labialis | 5 | Antigua | 17.08N | 61.48W | 30 | | | 3 | 18 | 114 | 1 | 4 | 46 | 26 | 8 | 1 | 5 | 42 | 3.4 | 549 |
| 70383 | labialis | 5 | Antigua | 17.08N | 61.48W | 30 | | | 4 | 15 | 114 | 1 | 4 | 47 | 28 | 11 | 1 | 5 | 43 | 3.4 | 669 |
| 70384 | labialis | 5 | Antigua | 17.08N | 61.48W | | | | 3 | 20 | 119 | 2 | 4 | 46 | 26 | 10 | 1 | 5 | 46 | 3.2 | 596 |
| 70385 | labialis | 5 | Antigua | 17.08N | 61.48W | | | | 5 | 18 | 119 | 2 | 4 | 52 | 29 | 11 | 1 | 5 | 44 | 3.2 | 596 |
| 70386 | labialis | 5 | St Kitts | 17.18N | 62.42W | | | | 3 | 14 | 130 | 2 | 4 | 49 | 29 | 10 | 1 | 5 | 47 | 3.2 | 570 |
| 70387 | labialis | 5 | Montserrat | 16.45N | 62.14W | | | | 3 | 18 | 141 | 2 | 4 | 52 | 31 | 10 | 1 | 5 | 46 | 3.4 | 544 |

| Accession No. | Species | Gp | Origin | Lat. | Long. | Alt. (m) | Rain (mm) | pH | CNH (mm) | CaD (cm) | DFFl | St | FrD | TLfLth (mm) | TLfWth (mm) | TLfPet (mm) | LHDAd | CalTth | PdLth (mm) | PdWth (mm) | SdWt (mg/100) |
|---------------|----------|----|---------------|--------|---------|----------|-----------|-----|----------|----------|------|----|-----|-------------|-------------|-------------|-------|--------|------------|------------|---------------|
| 73527 | labialis | 5 | Antigua | 17.00N | 61.45W | | | | 4 | 18 | 146 | 1 | 4 | 49 | 28 | 9 | 1 | 5 | 39 | 3.4 | 564 |
| 73528 | labialis | 5 | St Kitts | 17.07N | 62.35W | | | | 3 | 14 | 148 | 2 | 4 | 49 | 28 | 10 | 1 | 5 | 42 | 3.1 | 547 |
| 79675 | labialis | 5 | Cuba | 20.01N | 75.01W | 10 | 800 | | 4 | 34 | 119 | 3 | 4 | 46 | 22 | 8 | 1 | 5 | 39 | 3.2 | 507 |
| 79676 | labialis | 5 | Cuba | 19.59N | 76.21W | 5 | 1000 | 7.0 | 3 | 29 | 130 | 3 | 4 | 48 | 26 | 11 | 1 | 5 | 42 | 3.2 | 472 |
| 82316 | labialis | 5 | Cuba | 20.01N | 75.01W | 10 | 800 | | 4 | 22 | 142 | 3 | 4 | 50 | 26 | 12 | 1 | 5 | 42 | 3.2 | 590 |
| 82321 | labialis | 5 | Cuba | 20.38N | 75.56W | 50 | 1150 | 6.2 | 5 | 9 | 128 | 1 | 4 | 48 | 26 | 10 | 1 | 5 | 36 | 3.2 | 659 |
| 82322 | labialis | 5 | Cuba | 21.10N | 76.30W | 50 | 1000 | 6.2 | 8 | 9 | 77 | 1 | 3 | 56 | 27 | 11 | 1 | 5 | 34 | 3.0 | 652 |
| 82323 | labialis | 5 | Cuba | 21.08N | 76.40W | 50 | 1000 | 6.2 | 7 | 10 | 77 | 1 | 4 | 49 | 26 | 12 | 1 | 5 | 38 | 3.0 | 671 |
| 100454 | labialis | 5 | Antigua | | | | | | 6 | 7 | 148 | 1 | 4 | 41 | 23 | 8 | 1 | 5 | 34 | 3.4 | 520 |
| 100455 | labialis | 5 | Cuba | | | | | | 5 | 13 | 73 | 2 | 4 | 50 | 22 | 10 | 0 | 5 | 37 | 3.3 | 418 |
| 108673 | labialis | 5 | Indonesia | 8.34S | 116.09E | 5 | | 7.5 | 6 | 9 | 165 | 1 | 4 | 34 | 26 | 6 | 1 | 5 | 42 | 3.0 | 487 |
| 108689 | labialis | 5 | Indonesia | 8.27S | 117.19E | 5 | | 6.8 | 8 | 4 | 174 | 1 | 4 | 36 | 31 | 8 | 1 | 5 | 42 | 3.0 | 676 |
| 114118 | labialis | 5 | Tanzania | | | 1310 | | | 5 | 17 | 102 | 2 | 4 | 68 | 25 | 8 | 1 | 5 | 42 | 3.0 | 562 |
| 114133 | labialis | 5 | (Ethiopia) | | | | | | 5 | 16 | 143 | 2 | 4 | 54 | 21 | 11 | 1 | 5 | 33 | 3.6 | 692 |
| Q21623 | labialis | 6 | (Cuba) | | | | | | 6 | 10 | 165 | 2 | 3 | 44 | 20 | 6 | 0 | 5 | 40 | 3.0 | 519 |
| 50514 | labialis | 6 | (Philippines) | | | | | | 5 | 20 | 186 | 3 | 3 | 42 | 21 | 8 | 1 | 5 | 43 | 3.0 | 482 |
| 53868 | labialis | 6 | Phillipines | | | | | | 3 | 10 | 186 | 1 | 4 | 48 | 19 | 10 | 1 | 5 | 47 | 3.1 | nc |
| 68644 | labialis | 6 | (Cuba) | | | | | | 8 | 25 | 167 | 1 | 4 | 52 | 22 | 9 | 0 | 5 | 46 | 3.1 | 480 |
| 68646 | labialis | 6 | (Cuba) | | | | | | 6 | 14 | 170 | 1 | 4 | 52 | 23 | 8 | 0 | 5 | 49 | 3.2 | 581 |
| 70381 | labialis | 6 | (Antigua) | | | | | | 6 | 30 | 183 | 2 | 4 | 58 | 31 | 10 | 0 | 5 | 44 | 3.0 | 418 |
| 77251 | labialis | 6 | Guam | 13.17N | 144.45E | 5 | 2175 | | 5 | 35 | 183 | 2 | 4 | 46 | 21 | 6 | 1 | 5 | 44 | 3.0 | 620 |
| 77252 | labialis | 6 | Guam | 13.24N | 144.46E | 30 | 2175 | | 7 | 36 | 183 | 2 | 3 | 54 | 22 | 8 | 1 | 5 | 47 | 3.3 | 618 |
| 77253 | labialis | 6 | Guam | 13.25N | 144.40E | 70 | 2175 | | 8 | 33 | 183 | 3 | 4 | 58 | 22 | 6 | 1 | 5 | 42 | 3.0 | 656 |
| 77254 | labialis | 6 | Guam | 13.24N | 144.38E | 5 | 2175 | | 7 | 30 | 185 | 2 | 4 | 48 | 23 | 6 | 1 | 5 | 41 | 3.0 | 740 |
| 77255 | labialis | 6 | Guam | 13.20N | 144.46E | 5 | 2175 | | 7 | 30 | 183 | 3 | 4 | 58 | 23 | 6 | 1 | 5 | 42 | 3.0 | 686 |
| 77282 | labialis | 6 | Phillipines | 14.13N | 120.59E | 300 | 2000 | | 5 | 40 | 183 | 4 | 4 | 44 | 23 | 6 | 1 | 5 | 43 | 3.8 | 806 |
| 82319 | labialis | 6 | Cuba | 19.57N | 76.30W | 50 | 1100 | 7.0 | 7 | 23 | 170 | 3 | 4 | 53 | 34 | 13 | 0 | 5 | 50 | 3.4 | 625 |
| 92012 | labialis | 6 | Cuba | | | | | | 3 | 30 | 168 | 2 | 4 | 56 | 30 | 10 | 0 | 5 | 41 | 2.8 | 454 |
| 92013 | labialis | 6 | Cuba | | | | | | 5 | 28 | 169 | 2 | 3 | 55 | 26 | 10 | 0 | 5 | 44 | 3.0 | 534 |
| 105327 | labialis | 6 | Indonesia | 9.26S | 119.37E | 430 | | 7.5 | 7 | 28 | 183 | 2 | 4 | 58 | 40 | 14 | 1 | 5 | 51 | 3.3 | 800 |
| 114112 | labialis | 6 | (Cuba) | | | | | | 5 | 28 | 165 | 2 | 3 | 67 | 35 | 15 | 0 | 5 | 44 | 3.5 | 548 |

| Accession No. | Species | Gp | Origin | Lat. | Long. | Alt. (m) | Rain (mm) | pH | CNH (mm) | CaD (cm) | DFFl | St | FrD | TLfLth (mm) | TLfWth (mm) | TLfPet (mm) | LHDAd | CalTth | PdLth (mm) | PdWth (mm) | SdWt (mg/100) |
|---------------|----------|----|-----------|--------|---------|----------|-----------|-----|----------|----------|------|----|-----|-------------|-------------|-------------|-------|--------|------------|------------|---------------|
| 29770 | labialis | 7 | (India) | | | | | | 10 | 20 | 126 | 2 | 4 | 37 | 24 | 7 | 1 | 5 | 54 | 3.0 | 855 |
| 60373 | labialis | 7 | Kenya | 4.04S | 39.40E | 30 | 1250 | 8.5 | 15 | 25 | 73 | 2 | 4 | 59 | 26 | 10 | 1 | 5 | 48 | 3.6 | 726 |
| 69508 | labialis | 7 | Zimbabwe | 19.31S | 28.17E | | | | 10 | 10 | 128 | 2 | 3 | 59 | 30 | 6 | 1 | 5 | 54 | 3.0 | 775 |
| 81656 | labialis | 7 | Kenya | 3.37S | 39.50E | | | | 15 | 28 | 107 | 2 | 4 | 61 | 28 | 12 | 0 | 5 | 45 | 3.6 | 585 |
| 106747 | labialis | 7 | India | 8.48N | 77.43E | 20 | 690 | | 11 | 12 | 165 | 1 | 4 | 38 | 28 | 7 | 1 | 5 | 55 | 3.4 | 760 |
| 114117 | labialis | 7 | Tanzania | | | 430 | | | 14 | 30 | 125 | 2 | 4 | 74 | 32 | 8 | 1 | 5 | 50 | 3.8 | 661 |
| 114129 | labialis | 7 | Ethiopia | 9.07N | 40.01E | 800 | 500 | | 12 | 9 | 109 | 1 | 4 | 50 | 32 | 7 | 1 | 5 | 49 | 3.4 | 753 |
| 52795 | labialis | 8 | Zambia | 8.50S | 31.06E | 800 | 1200 | | 8 | 20 | 171 | 2 | 4 | 50 | 32 | 10 | 1 | 5 | 49 | 3.4 | 538 |
| 100125 | labialis | 8 | Indonesia | | | 5 | 1349 | 6.5 | 5 | 11 | 170 | 2 | 4 | 49 | 22 | 10 | 1 | 5 | 43 | 3.2 | 387 |
| 101574 | labialis | 8 | Indonesia | 10.11S | 120.50E | | | | 8 | 28 | 183 | 0 | 5 | 45 | 36 | 9 | 1 | 5 | 36 | 3.0 | nc |
| 105207 | labialis | 8 | Indonesia | 0.42S | 119.42E | 60 | | 6.5 | 7 | 15 | 183 | 2 | 4 | 55 | 40 | 12 | 1 | 5 | 42 | 3.4 | nc |
| 105279 | labialis | 8 | Indonesia | 9.05S | 124.44E | 30 | | 8.0 | 8 | 16 | 180 | 0 | 4 | 47 | 34 | 10 | 1 | 5 | 54 | 3.6 | 492 |
| 105284 | labialis | 8 | Indonesia | 9.00S | 124.54E | 5 | | 7.5 | 5 | 25 | 181 | 2 | 4 | 54 | 39 | 12 | 1 | 5 | 46 | 3.2 | 385 |
| 105787 | labialis | 8 | Indonesia | | | | | | 6 | 25 | 183 | 2 | 4 | 63 | 25 | 8 | 1 | 5 | 46 | 3.1 | 710 |
| 105815 | labialis | 8 | Indonesia | 10.15S | 123.38E | 410 | | 7.0 | 8 | 11 | 181 | 1 | 5 | 48 | 38 | 13 | 1 | 5 | 40 | 3.2 | 435 |
| 105828 | labialis | 8 | Indonesia | 9.53S | 124.18E | 750 | | 7.5 | 9 | 5 | 205 | 1 | 4 | 47 | 35 | 12 | 1 | 5 | nc | nc | 686 |
| 105847 | labialis | 8 | Indonesia | 9.08S | 124.39E | 10 | | 7.5 | 8 | 9 | 183 | 1 | 4 | 49 | 36 | 11 | 1 | 5 | 50 | 3.3 | nc |
| 105870 | labialis | 8 | Indonesia | 10.16S | 123.33E | 150 | | 6.0 | 6 | 29 | 183 | 0 | 4 | 49 | 35 | 12 | 1 | 5 | 50 | 3.1 | 547 |
| 105872 | labialis | 8 | Indonesia | 9.41S | 120.22E | 5 | | 8.0 | 12 | 22 | 182 | 0 | 4 | 62 | 52 | 18 | 1 | 5 | 45 | 3.1 | 389 |
| 105873 | labialis | 8 | Indonesia | 9.40S | 120.23E | 5 | | 8.5 | 7 | 32 | 177 | 1 | 4 | 62 | 48 | 19 | 1 | 5 | 50 | 3.2 | 506 |
| 105876 | labialis | 8 | Indonesia | 9.48S | 120.37E | 5 | | 8.0 | 6 | 30 | 178 | 0 | 4 | 61 | 44 | 15 | 1 | 5 | 50 | 3.3 | 378 |
| 106659 | labialis | 8 | India | 10.28N | 77.10E | 390 | 700 | | 8 | 20 | 163 | 2 | 4 | 50 | 36 | 10 | 1 | 5 | 55 | 3.2 | 535 |
| 107692 | labialis | 8 | Indonesia | | | | | | 5 | 9 | 178 | 0 | 4 | 50 | 36 | 11 | 2 | 5 | 42 | 3.2 | 743 |
| 107694 | labialis | 8 | Indonesia | | | | | | 8 | 15 | 185 | 0 | 4 | 51 | 41 | 10 | 1 | 5 | 42 | 3.2 | 409 |
| 108336 | labialis | 8 | Indonesia | 8.16S | 123.01E | 40 | | 6.5 | 8 | 32 | 177 | 0 | 4 | 51 | 40 | 12 | 1 | 5 | 42 | 3.0 | 645 |
| 108422 | labialis | 8 | Indonesia | 8.45S | 120.08E | 20 | | 7.5 | 10 | 11 | 175 | 2 | 4 | 50 | 39 | 11 | 1 | 5 | 48 | 3.2 | 484 |
| 108448 | labialis | 8 | Indonesia | 8.23S | 120.28E | 290 | | 7.5 | 5 | 10 | 175 | 1 | 4 | 44 | 33 | 10 | 1 | 5 | 46 | 3.2 | 475 |
| 108455 | labialis | 8 | Indonesia | 8.17S | 120.29E | 5 | | 6.0 | 10 | 12 | 177 | 1 | 4 | 53 | 39 | 12 | 1 | 5 | 42 | 3.1 | 650 |
| 108624 | labialis | 8 | Indonesia | 8.37S | 116.12E | 75 | | 7.0 | 9 | 23 | 176 | 2 | 4 | 52 | 36 | 10 | 1 | 5 | 41 | 3.2 | 418 |
| 108627 | labialis | 8 | Indonesia | 8.45S | 116.06E | 130 | | 6.5 | 8 | 29 | 178 | 2 | 4 | 58 | 40 | 13 | 1 | 5 | 41 | 3.0 | 377 |
| 108630 | labialis | 8 | Indonesia | 8.32S | 116.16E | 5 | | 7.5 | 7 | 28 | 176 | 2 | 4 | 48 | 38 | 11 | 1 | 5 | 50 | 3.0 | 400 |

| Accession No. | Species | Gp | Origin | Lat. | Long. | Alt. (m) | Rain (mm) | pH | CNH (mm) | CaD (cm) | DFFl | St | FrD | TLfLth (mm) | TLfWth (mm) | TLfPet (mm) | LHDAd | CalTth | PdLth (mm) | PdWth (mm) | SdWt (mg/100) |
|---------------|----------|----|-----------|--------|---------|----------|-----------|-----|----------|----------|------|----|-----|-------------|-------------|-------------|-------|--------|------------|------------|---------------|
| 108636 | labialis | 8 | Indonesia | 8.30S | 116.07E | 60 | | 6.0 | 5 | 20 | 178 | 2 | 4 | 48 | 36 | 12 | 1 | 5 | 44 | 3.4 | 382 |
| 108642 | labialis | 8 | Indonesia | 8.25S | 116.07E | 80 | | 7.5 | 5 | 13 | 176 | 2 | 4 | 38 | 32 | 8 | 2 | 5 | 43 | 2.8 | 424 |
| 108647 | labialis | 8 | Indonesia | 8.41S | 116.17E | 70 | | 7.0 | 7 | 14 | 163 | 1 | 4 | 44 | 34 | 10 | 1 | 5 | 44 | 3.0 | 494 |
| 108691 | labialis | 8 | Indonesia | 8.25S | 117.13E | 5 | | 6.5 | 11 | 16 | 174 | 0 | 4 | 44 | 35 | 11 | 1 | 5 | 45 | 3.0 | 381 |
| 108697 | labialis | 8 | Indonesia | 8.27S | 117.06E | 20 | | 8.0 | 10 | 7 | 175 | 1 | 4 | 41 | 36 | 10 | 1 | 5 | 32 | 3.0 | 804 |
| 108698 | labialis | 8 | Indonesia | 8.29S | 117.02E | 20 | | 8.0 | 6 | 5 | 165 | 0 | 6 | 38 | 33 | 11 | 1 | 5 | 42 | 2.8 | 746 |
| 52800 | micans | 9 | Malawi | 13.41S | 34.10E | 1200 | 1000 | | 5 | 45 | 186 | 4 | 3 | 98 | 78 | 12 | 2 | 4 | 40 | 3.6 | 681 |
| 104684 | mollis | 4 | India | 23.10N | 79.01E | 460 | 1420 | | 7 | 12 | 79 | 0 | 6 | 37 | 27 | 10 | 0 | 4 | 38 | 3.8 | 809 |
| 104685 | mollis | 4 | India | 23.06N | 79.09E | 390 | 1450 | 6.5 | 4 | 7 | 68 | 0 | 4 | 43 | 24 | 6 | 0 | 4 | 35 | 3.8 | 936 |
| 104781 | mollis | 4 | India | 23.08N | 79.48E | 420 | 1450 | | 5 | 17 | 79 | 0 | 6 | 39 | 24 | 5 | 0 | 4 | 38 | 3.5 | 873 |
| 104792 | mollis | 4 | India | 22.59N | 80.04E | 540 | 1430 | | 4 | 15 | 89 | 0 | 4 | 41 | 27 | 8 | 0 | 4 | 42 | 3.6 | 872 |
| 104823 | mollis | 4 | India | 22.28E | 80.30E | 540 | 1420 | 6.5 | 5 | 20 | 102 | 0 | 4 | 53 | 36 | 12 | 0 | 4 | 42 | 3.7 | 831 |
| 104843 | mollis | 4 | India | 22.25N | 80.18E | 490 | 1430 | 8.7 | 4 | 14 | 97 | 0 | 6 | 35 | 24 | 6 | 0 | 4 | 39 | 3.6 | 951 |
| 104863 | mollis | 4 | India | 22.01N | 79.25E | | | | 5 | 7 | 109 | 0 | 4 | 34 | 23 | 8 | 0 | 4 | 34 | 3.6 | 863 |
| 104942 | mollis | 4 | India | 22.43N | 76.26E | 460 | 1120 | | 4 | 6 | 68 | 0 | 4 | 38 | 26 | 8 | 0 | 4 | 39 | 3.9 | 878 |
| 104965 | mollis | 4 | India | 22.34N | 75.40E | 585 | 1050 | | 0 | 5 | 135 | 0 | 5 | 41 | 26 | 8 | 0 | 4 | 42 | 4.0 | 1195 |
| 104997 | mollis | 4 | India | 21.36N | 76.18E | 355 | 950 | | 3 | 4 | 68 | 0 | 4 | 35 | 25 | 8 | 0 | 4 | 41 | 3.7 | 886 |
| 106395 | mollis | 4 | India | 15.39N | 74.45E | 740 | 1200 | | 6 | 14 | 137 | 0 | 4 | 40 | 25 | 7 | 1 | 4 | 38 | 3.1 | 551 |
| 60372 | repens | 1 | Kenya | 4.04S | 39.40E | 6 | 1250 | 8.5 | 10 | 15 | 73 | 2 | 6 | 29 | 22 | 7 | 1 | 5 | 31 | 2.9 | 518 |
| 60375 | repens | 1 | Kenya | 3.18S | 40.01E | 6 | 1000 | 9.0 | 8 | 18 | 73 | 1 | 6 | 32 | 23 | 7 | 1 | 5 | 29 | 2.9 | 404 |
| 75961 | repens | 1 | Kenya | | | 30 | | | 5 | 22 | 73 | 4 | 6 | 50 | 30 | 10 | 2 | 5 | 37 | 3.6 | 850 |
| 75962 | repens | 1 | Kenya | | | | | | 3 | 15 | 73 | 3 | 6 | 40 | 22 | 8 | 2 | 5 | 29 | 2.8 | 651 |
| 81653 | repens | 1 | Kenya | 3.37S | 39.50E | 5 | | | 2 | 20 | 77 | 4 | 6 | 42 | 29 | 6 | 2 | 5 | 30 | 3.0 | 514 |
| 81654 | repens | 1 | Kenya | 3.37S | 39.50E | 5 | | | 5 | 20 | 73 | 4 | 6 | 52 | 30 | 10 | 1 | 5 | 34 | 3.4 | 865 |
| 25338 | repens | 2 | Kenya | 0.31S | 34.30E | | | | 2 | 14 | 110 | 3 | 4 | 34 | 32 | 7 | 1 | 5 | 35 | 2.6 | 321 |
| 25340 | repens | 2 | (Kenya) | | | | | | 2 | 9 | 122 | 1 | 4 | 36 | 28 | 6 | 1 | 5 | 31 | 2.4 | 340 |
| 52801 | repens | 2 | Zambia | 15.26S | 28.20E | 1200 | 775 | | 2 | 6 | 109 | 3 | 4 | 26 | 22 | 4 | 1 | 5 | 34 | 2.8 | 389 |
| 67227 | repens | 2 | Uganda | 0.27N | 33.14E | 1200 | 1300 | | 1 | 12 | 114 | 2 | 4 | 37 | 30 | 6 | 1 | 5 | 40 | 2.8 | 366 |

| Accession No. | Species | Gp | Origin | Lat. | Long. | Alt. (m) | Rain (mm) | pH | CNH (mm) | CaD (cm) | DFFI | St | FrD | TLfLth (mm) | TLfWth (mm) | TLfPet (mm) | LHDAd | CalTth | PdLth (mm) | PdWth (mm) | SdWt (mg/100) |
|---------------|-----------|----|-------------|--------|---------|----------|-----------|-----|----------|----------|------|----|-----|-------------|-------------|-------------|-------|--------|------------|------------|---------------|
| 77006 | repens | 2 | Zambia | 15.39S | 28.19E | | | | 2 | 4 | 168 | 2 | 4 | 25 | 22 | 3 | 1 | 5 | 32 | 2.8 | 364 |
| 52788 | uncinatus | 3 | Zimbabwe | 19.25S | 32.30E | | | | 2 | 12 | 143 | 0 | 3 | 92 | 36 | 5 | 2 | 5 | 36 | 3.0 | 537 |
| 114121 | uncinatus | 3 | Ethiopia | 8.03N | 36.27E | 1580 | 1500 | 5.0 | 2 | nc | 184 | 0 | 5 | 67 | 19 | 4 | 1 | 5 | nc | nc | nc |
| Q17406 | uncinatus | 6 | (Australia) | | | | | | 28 | 27 | 141 | 0 | 5 | 88 | 29 | 12 | 2 | 5 | 54 | 3.0 | 711 |
| 18428 | uncinatus | 6 | Zambia | 16.51S | 27.04E | | | | 25 | 35 | 168 | 1 | 4 | 76 | 42 | 14 | 1 | 5 | 51 | 3.2 | 637 |
| 33161 | uncinatus | 6 | Uganda | | | | | 6.0 | 25 | 26 | 173 | 1 | 5 | 70 | 24 | 8 | 1 | 5 | 55 | 2.9 | 565 |
| 34753 | uncinatus | 6 | Brazil | 22.54S | 47.06W | | | | 20 | 24 | 173 | 0 | 5 | 77 | 39 | 9 | 2 | 5 | 57 | 3.0 | 712 |
| 37621 | uncinatus | 6 | Bolivia | 18.08S | 63.52W | 1200 | | | 25 | 27 | 157 | 1 | 5 | 72 | 40 | 7 | 1 | 5 | 51 | 3.5 | 592 |
| 37705 | uncinatus | 6 | Bolivia | | | 630 | | | 23 | 42 | 144 | 1 | 3 | 99 | 42 | 11 | 2 | 5 | 41 | 3.0 | 530 |
| 40306 | uncinatus | 6 | Brazil | 23.42S | 47.27W | 850 | | | nc | 27 | 151 | 0 | 2 | 80 | 47 | 13 | 2 | 5 | 50 | 3.4 | 718 |
| 40313 | uncinatus | 6 | Bolivia | 17.25S | 63.15W | 420 | | | 30 | 38 | 144 | 1 | 5 | 103 | 49 | 10 | 1 | 5 | 49 | 2.9 | 489 |
| 40315 | uncinatus | 6 | Brazil | | | 450 | | | 27 | 35 | 171 | 0 | 3 | 65 | 38 | 10 | 2 | 5 | 48 | 2.8 | 470 |
| 40316 | uncinatus | 6 | Brazil | | | 450 | | | 27 | 38 | 169 | 0 | 4 | 70 | 42 | 10 | 1 | 5 | 50 | 3.0 | 540 |
| 40317 | uncinatus | 6 | Brazil | 21.46S | 42.38W | 330 | | | 25 | 42 | 167 | 2 | 5 | 73 | 44 | 12 | 1 | 5 | 42 | 2.9 | 651 |
| 43791 | uncinatus | 6 | Zambia | | | | | | 28 | 22 | 144 | 1 | 5 | 92 | 25 | 10 | 1 | 5 | 47 | 2.6 | 643 |
| 49750 | uncinatus | 6 | Brazil | 20.26S | 49.53W | 350 | 1175 | | 30 | 46 | 172 | 1 | 3 | 83 | 47 | 15 | 2 | 5 | 55 | 3.4 | 721 |
| 50154 | uncinatus | 6 | (Mexico) | | | | | | 22 | 37 | 189 | 1 | 4 | 85 | 36 | 13 | 2 | 5 | 54 | 3.0 | 632 |
| 52785 | uncinatus | 6 | Madagascar | 18.57S | 46.41E | 1300 | 1650 | | 27 | 21 | 151 | 1 | 5 | 85 | 32 | 9 | 1 | 5 | 48 | 2.9 | 493 |
| 52787 | uncinatus | 6 | Tanzania | 7.22S | 37.00E | 1000 | 1200 | | 21 | 34 | 178 | 1 | 5 | 82 | 26 | 7 | 1 | 5 | 52 | 2.8 | 548 |
| 52790 | uncinatus | 6 | Madagascar | 18.44S | 46.02E | 775 | 1650 | | 23 | 15 | 144 | 1 | 5 | 86 | 26 | 9 | 1 | 5 | 44 | 2.7 | 570 |
| 52791 | uncinatus | 6 | Zambia | | | | | | 22 | 20 | 141 | 0 | 5 | 82 | 31 | 13 | 1 | 5 | 49 | 2.8 | 633 |
| 52803 | uncinatus | 6 | Malawi | 13.45S | 34.29E | 500 | 1100 | | 15 | 22 | 151 | 1 | 5 | 82 | 30 | 10 | 1 | 5 | 60 | 2.9 | 533 |
| 76288 | uncinatus | 6 | Guatemala | 14.20N | 90.47W | 700 | 1600 | 7.0 | 28 | 22 | 183 | 0 | 3 | 65 | 30 | 8 | 2 | 5 | 49 | 3.2 | 667 |
| 77005 | uncinatus | 6 | Zambia | 15.39S | 28.19E | | | | 27 | 24 | 146 | 0 | 5 | 96 | 30 | 12 | 2 | 5 | 55 | 2.8 | 604 |
| 85873 | uncinatus | 6 | Mexico | 16.03N | 96.30W | 1500 | 1000 | 6.5 | 25 | 34 | 182 | 1 | 4 | 79 | 34 | 13 | 1 | 5 | 50 | 3.1 | 850 |
| 86143 | uncinatus | 6 | Mexico | 21.20N | 104.32W | 1000 | 1000 | 6.5 | 25 | 38 | 147 | 1 | 4 | 70 | 35 | 8 | 1 | 5 | 54 | 3.1 | 899 |
| 87501 | uncinatus | 6 | Mexico | 16.08N | 97.11W | 1000 | 2000 | | 28 | 38 | 157 | 1 | 4 | 77 | 37 | 13 | 1 | 5 | 55 | 3.0 | 542 |
| 87881 | uncinatus | 6 | Mexico | 19.12N | 96.43W | 650 | 1000 | | 25 | 48 | 164 | 1 | 4 | 92 | 34 | 16 | 1 | 5 | 48 | 3.2 | 459 |
| 89188 | uncinatus | 6 | Mexico | 19.20N | 104.30W | 600 | | | 25 | 37 | 181 | 2 | 4 | 75 | 39 | 11 | 1 | 5 | 52 | 3.1 | 528 |
| 91129 | uncinatus | 6 | Mexico | 18.26N | 99.55W | 1450 | 1150 | 8.0 | 15 | 34 | 157 | 1 | 5 | 77 | 34 | 14 | 1 | 5 | 52 | 2.8 | 523 |

| Accession No. | Species | Gp | Origin | Lat. | Long. | Alt. (m) | Rain (mm) | pH | CNH (mm) | CaD (cm) | DFFl | St | FrD | TLfLth (mm) | TLfWth (mm) | TLfPet (mm) | LHDAd | CalTth | PdLth (mm) | PdWth (mm) | SdWt (mg/100) |
|---------------|-----------|----|--------------|--------|---------|----------|-----------|-----|----------|----------|------|----|-----|-------------|-------------|-------------|-------|--------|------------|------------|---------------|
| 91134 | uncinatus | 6 | Mexico | 18.27N | 99.58W | 1450 | 1150 | 7.0 | 25 | 27 | 157 | 2 | 5 | 71 | 32 | 12 | 1 | 5 | 46 | 3.0 | 581 |
| 91167 | uncinatus | 6 | Mexico | 18.27N | 100.00W | 1450 | 1000 | | 25 | 32 | 157 | 1 | 5 | 75 | 32 | 14 | 1 | 5 | 51 | 3.0 | 561 |
| 91238 | uncinatus | 6 | Mexico | 18.51N | 100.10W | 1300 | 1700 | 7.0 | 20 | 33 | 156 | 2 | 4 | 79 | 35 | 17 | 1 | 5 | 56 | 3.2 | 578 |
| 40310 | uncinatus | 7 | Bolivia | | | 2100 | | | 30 | 40 | 167 | 1 | 5 | 99 | 58 | 13 | 1 | 5 | 60 | 3.1 | 540 |
| 40312 | uncinatus | 7 | Bolivia | 18.08S | 63.20W | 660 | | | 26 | 42 | 151 | 1 | 4 | 94 | 44 | 8 | 1 | 5 | 53 | 3.1 | 612 |
| 76287 | uncinatus | 7 | Belize | 18.05N | 88.35W | | 1400 | | 30 | 30 | 219 | 2 | 5 | 98 | 45 | 12 | 1 | 5 | nc | nc | 1140 |
| 85840 | uncinatus | 7 | Mexico | 16.30N | 98.30W | 200 | 1200 | 7.0 | 30 | 40 | 167 | 2 | 4 | 87 | 46 | 16 | 1 | 5 | 53 | 3.3 | 1134 |
| 114119 | uncinatus | 7 | Ethiopia | 11.04N | 35.56E | 1100 | 1200 | | 20 | 28 | 161 | 2 | 5 | 84 | 30 | 8 | 1 | 5 | 60 | 2.7 | 622 |
| CQ503 | uncinatus | 8 | (Australia) | | | | | | 25 | 40 | 175 | 1 | 3 | 80 | 44 | 18 | 2 | 5 | 53 | 3.0 | 544 |
| Q10119 | uncinatus | 8 | Peru | | | | | | 25 | 38 | 173 | 1 | 3 | 89 | 42 | 13 | 2 | 5 | 49 | 2.5 | 429 |
| Q10804 | uncinatus | 8 | Guatemala | 14.42N | 91.50W | | | | 22 | 40 | 202 | 1 | 4 | 95 | 50 | 12 | 2 | 5 | nc | nc | 741 |
| Q24674 | uncinatus | 8 | (Australia) | | | | | | 24 | 45 | 174 | 1 | 3 | 81 | 42 | 15 | 2 | 5 | 46 | 2.6 | 412 |
| Q8344 | uncinatus | 8 | Guatemala | | | | | | 25 | 50 | 175 | 1 | 3 | 98 | 48 | 20 | 2 | 5 | 42 | 3.0 | 368 |
| 12370 | uncinatus | 8 | (Guyana) | | | | | | 20 | 38 | 191 | 1 | 3 | 75 | 45 | 12 | 1 | 5 | 58 | 2.9 | 580 |
| 21509 | uncinatus | 8 | Costa Rica | | | | | | 20 | 34 | 192 | 1 | 3 | 78 | 44 | 12 | 1 | 5 | 50 | 2.8 | 439 |
| 22620 | uncinatus | 8 | (Nigeria) | | | | | | 22 | 36 | 192 | 2 | 3 | 74 | 42 | 14 | 1 | 5 | 56 | 3.0 | 589 |
| 24214 | uncinatus | 8 | (Cuba) | | | | | | 25 | 40 | 190 | 1 | 3 | 78 | 45 | 14 | 2 | 5 | 50 | 3.0 | 619 |
| 25937 | uncinatus | 8 | (Tanzania) | | | | | | 20 | 38 | 169 | 1 | 3 | 73 | 42 | 14 | 1 | 5 | 55 | 3.1 | 556 |
| 27325 | uncinatus | 8 | (Costa Rica) | | | | | | 25 | 35 | 199 | 2 | 3 | 73 | 42 | 11 | 2 | 5 | 51 | 2.9 | 589 |
| 32376 | uncinatus | 8 | Costa Rica | | | | | | 15 | 41 | 207 | 2 | 3 | 73 | 48 | 11 | 2 | 5 | nc | nc | 747 |
| 33980 | uncinatus | 8 | Costa Rica | 10.26N | 85.08W | | | | 28 | 42 | 190 | 1 | 3 | 93 | 46 | 7 | 2 | 5 | 58 | 3.2 | 856 |
| 33981 | uncinatus | 8 | Costa Rica | | | | | | 25 | 42 | 191 | 2 | 3 | 79 | 47 | 11 | 2 | 5 | 55 | 2.9 | 488 |
| 34441 | uncinatus | 8 | Guatemala | 14.25N | 90.35W | | | | 22 | 38 | 182 | 1 | 3 | 75 | 32 | 11 | 1 | 5 | 48 | 3.1 | 522 |
| 34593 | uncinatus | 8 | Brazil | | | | | | 18 | 50 | 182 | 1 | 3 | 79 | 39 | 13 | 1 | 5 | 50 | 2.8 | 372 |
| 37356 | uncinatus | 8 | Nicaragua | 12.06N | 86.18W | 15 | | | 22 | 44 | 186 | 1 | 3 | 97 | 52 | 13 | 1 | 5 | 52 | 3.0 | 504 |
| 37648 | uncinatus | 8 | Bolivia | 18.08S | 63.53W | 1210 | | | 25 | 38 | 151 | 1 | 3 | 76 | 46 | 10 | 1 | 5 | 52 | 3.1 | 675 |
| 38621 | uncinatus | 8 | (Mexico) | | | | | | 20 | 38 | 201 | 1 | 3 | 103 | 43 | 11 | 1 | 5 | 49 | 2.7 | 391 |
| 38622 | uncinatus | 8 | (Mexico) | | | | | | 23 | 45 | 171 | 1 | 3 | 93 | 50 | 14 | 1 | 5 | nc | nc | nc |
| 39124 | uncinatus | 8 | Brazil | 22.45S | 47.40W | | | | 21 | 46 | 182 | 1 | 3 | 96 | 40 | 14 | 1 | 5 | 52 | 2.6 | 319 |
| 40307 | uncinatus | 8 | Bolivia | | | 1200 | | | 25 | 35 | 158 | 1 | 4 | 94 | 50 | 11 | 1 | 5 | 56 | 3.2 | 707 |

| Accession No. | Species | Gp | Origin | Lat. | Long. | Alt. (m) | Rain (mm) | pH | CNH (mm) | CaD (cm) | DFFl | St | FrD | TLfLth (mm) | TLfWth (mm) | TLfPet (mm) | LHDAd | CalTth | PdLth (mm) | PdWth (mm) | SdWt (mg/100) |
|---------------|-----------|----|------------|--------|---------|----------|-----------|-----|----------|----------|------|----|-----|-------------|-------------|-------------|-------|--------|------------|------------|---------------|
| 40308 | uncinatus | 8 | (Brazil) | | | | | | 17 | 52 | 182 | 1 | 3 | 76 | 34 | 13 | 1 | 5 | 48 | 2.5 | 383 |
| 40311 | uncinatus | 8 | Bolivia | 18.06S | 63.40W | | | 6.2 | 23 | 30 | 159 | 1 | 5 | 92 | 54 | 11 | 1 | 5 | 53 | 3.2 | 634 |
| 40314 | uncinatus | 8 | Brazil | | | 600 | | | 25 | 40 | 151 | 0 | 4 | 89 | 46 | 15 | 1 | 5 | 48 | 2.8 | 410 |
| 46382 | uncinatus | 8 | (Cuba) | | | | | | 20 | 38 | 144 | 0 | 4 | 97 | 42 | 15 | 1 | 5 | 65 | 3.2 | 680 |
| 49845 | uncinatus | 8 | Brazil | 18.51S | 41.57W | 350 | 1150 | | 25 | 38 | 168 | 1 | 3 | 82 | 43 | 9 | 1 | 5 | 54 | 3.0 | 538 |
| 49846 | uncinatus | 8 | (Brazil) | | | | | | 26 | 47 | 184 | 1 | 3 | 89 | 36 | 16 | 2 | 5 | 51 | 2.8 | 454 |
| 54837 | uncinatus | 8 | (Brazil) | | | | | | 20 | 50 | 173 | 1 | 3 | 77 | 46 | 16 | 2 | 5 | 53 | 2.8 | 353 |
| 68899 | uncinatus | 8 | (Brazil) | | | | | | 35 | 40 | 189 | 1 | 3 | 90 | 49 | 11 | 1 | 5 | 62 | 3.2 | 665 |
| 75180 | uncinatus | 8 | Colombia | 4.16N | 73.33W | 1200 | 700 | | 23 | 40 | 170 | 2 | 3 | 78 | 39 | 6 | 3 | 5 | 44 | 2.8 | 307 |
| 76286 | uncinatus | 8 | Belize | 17.11N | 89.00W | 60 | 1400 | | 27 | 50 | 191 | 2 | 4 | 77 | 52 | 14 | 2 | 5 | 46 | 2.7 | 665 |
| 81393 | uncinatus | 8 | Colombia | 4.00N | 76.17W | 1600 | 1500 | | 25 | 50 | 161 | 2 | 4 | 97 | 40 | 10 | 2 | 5 | 49 | 2.8 | 401 |
| 82318 | uncinatus | 8 | Cuba | 20.19N | 75.49W | 250 | 1200 | 7.5 | 30 | 45 | 179 | 1 | 3 | 101 | 51 | 15 | 1 | 5 | 59 | 3.2 | 597 |
| 82330 | uncinatus | 8 | Brazil | 16.45S | 43.52W | | 850 | | 25 | 24 | 187 | 1 | 3 | 80 | 44 | 12 | 1 | 5 | 54 | 3.1 | 718 |
| 85865 | uncinatus | 8 | Mexico | 15.43N | 96.29W | 300 | 1600 | 6.5 | 22 | 37 | 200 | 1 | 2 | 81 | 36 | 16 | 1 | 5 | 44 | 3.2 | 719 |
| 86177 | uncinatus | 8 | Mexico | 19.17N | 104.40W | 40 | 1000 | 6.5 | 32 | 47 | 155 | 1 | 3 | 90 | 43 | 14 | 2 | 5 | 50 | 3.0 | 583 |
| 87544 | uncinatus | 8 | Mexico | 18.28N | 95.26W | 200 | 2200 | 6.5 | 20 | 48 | 219 | 1 | 3 | 97 | 54 | 11 | 1 | 5 | 39 | 2.9 | 708 |
| 87551 | uncinatus | 8 | Mexico | 18.20N | 95.55W | 96 | 1400 | 6.0 | 25 | 50 | 183 | 1 | 3 | 103 | 49 | 15 | 1 | 5 | 46 | 3.0 | 691 |
| 87805 | uncinatus | 8 | Mexico | 18.31N | 95.10W | 300 | 2300 | 6.0 | 21 | 55 | 207 | 1 | 3 | 90 | 46 | 15 | 1 | 5 | 40 | 3.2 | 460 |
| 87851 | uncinatus | 8 | Mexico | 16.51N | 93.30W | 1000 | 1000 | | 22 | 50 | 215 | 1 | 3 | 88 | 47 | 16 | 2 | 5 | 45 | 3.1 | 675 |
| 92629 | uncinatus | 8 | Colombia | 3.50N | 76.30W | 1575 | 160 | 5.5 | 30 | 40 | 183 | 1 | 3 | 96 | 43 | 14 | 2 | 5 | 50 | 2.7 | 600 |
| 114131 | uncinatus | 8 | Ethiopia | 6.17N | 36.52E | 1420 | 1700 | 7.0 | 15 | 38 | 176 | 2 | 5 | 82 | 33 | 8 | 1 | 5 | 48 | 2.9 | 466 |
| 32964 | volubilis | 5 | (Colombia) | | | | | | 1 | 3 | 173 | 1 | 4 | 27 | 11 | 5 | 0 | 4 | nc | nc | 283 |
| 35688 | volubilis | 5 | (Trinidad) | | | | | | 2 | 8 | 122 | 2 | 4 | 39 | 19 | 6 | 0 | 4 | 32 | 2.0 | 204 |
| 38301 | volubilis | 5 | Venezuela | | | 450 | | | 3 | 4 | 186 | 1 | 4 | 43 | 18 | 8 | 0 | 4 | 26 | 2.2 | 243 |
| 41017 | volubilis | 5 | Fiji | | | | | | 3 | 4 | 122 | 0 | 4 | 40 | 18 | 6 | 0 | 4 | 31 | 2.1 | 194 |
| 51385 | volubilis | 5 | Venezuela | | | | | | 2 | 4 | 185 | 1 | 4 | 37 | 18 | 8 | 0 | 4 | 36 | 2.2 | 261 |
| 58730 | volubilis | 5 | Colombia | 8.45N | 75.54W | 28 | 1200 | | 4 | 12 | 108 | 2 | 4 | 44 | 18 | 9 | 0 | 4 | 27 | 2.2 | 190 |
| 58733 | volubilis | 5 | Colombia | 10.22N | 73.10W | 230 | 600 | | 5 | 5 | 173 | 2 | 4 | 38 | 20 | 6 | 1 | 4 | 26 | 2.2 | 212 |
| 58734 | volubilis | 5 | Venezuela | | | 200 | 1100 | | 5 | 5 | 117 | 2 | 4 | 46 | 20 | 11 | 0 | 4 | 33 | 2.5 | 259 |
| 61187 | volubilis | 5 | Venezuela | | | | | | 2 | 4 | 114 | 0 | 5 | 36 | 14 | 8 | 0 | 4 | 32 | 2.8 | 295 |
| 76290 | volubilis | 5 | Belize | 17.11N | 89.00W | 60 | 1400 | | 2 | 4 | 119 | 2 | 4 | 46 | 24 | 7 | 0 | 4 | 28 | 2.2 | 190 |

| Accession No. | Species | Gp | Origin | Lat. | Long. | Alt. (m) | Rain (mm) | pH | CNH (mm) | CaD (cm) | DFFl | St | FrD | TLfLth (mm) | TLfWth (mm) | TLfPet (mm) | LHDAd | CalTth | PdLth (mm) | PdWth (mm) | SdWt (mg/ 100) |
|---------------|-----------|----|--------|--------|--------|-------------|--------------|-----|-------------|-------------|------|----|-----|----------------|----------------|----------------|-------|--------|---------------|---------------|----------------------|
| 79677 | volubilis | 5 | Cuba | 20.14N | 76.07W | 250 | 1200 | 7.0 | 3 | 9 | 94 | 4 | 4 | 56 | 18 | 8 | 0 | 4 | 33 | 2.0 | 228 |
| 82317 | volubilis | 5 | Cuba | 20.25N | 75.32W | 250 | 1200 | 7.0 | 2 | 4 | 94 | 2 | 4 | 45 | 22 | 6 | 0 | 4 | 33 | 2.1 | 224 |
| 82324 | volubilis | 5 | Cuba | 20.21N | 76.28W | 75 | 1200 | | 3 | 10 | 94 | 3 | 4 | 54 | 28 | 8 | 0 | 4 | 37 | 2.2 | 228 |
| 91980 | volubilis | 5 | Cuba | | | | | | 3 | 6 | 119 | 1 | 4 | 48 | 20 | 10 | 0 | 4 | 34 | 2.7 | 265 |

¹ nc denotes data not collected.