

CHECKLIST OF BOLIVIAN BROMELIACEAE WITH NOTES ON SPECIES DISTRIBUTION AND LEVELS OF ENDEMISM

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ABSTRACT. A discussion of Bromeliaceae diversity in Bolivia, and a checklist of the 21 genera and 281 species occurring there is presented. Each species entry in the checklist includes accepted name, comprehensive synonymy for all species described based on Bolivian types, additional pertinent synonymy, elevation range above sea level, distribution by department, and an indication of which species are endemic to Bolivia.

RESUMEN. Aquí se describe la diversidad de la familia Bromeliaceae en Bolivia. Se incluye un listado de los 21 géneros y 281 especies que ocurren ahí. Cada especie en el listado contiene información del nombre aceptado, sinonimia comprensiva para cada especie descrita en base a muestras Bolivianas, sinonimia pertinente adicional, rango de elevación sobre el nivel del mar, distribución por departamento, y se indica cuáles especies son endémicas a Bolivia.

Key words: Bromeliaceae, Bolivia, checklist, endemic

INTRODUCTION

The checklist presented here provides updated information on the diversity and distribution of Bromeliaceae in Bolivia. Numerous collections in the last two decades, especially from fieldwork by S.G. Beck, H. & L. Hromadnik, M. Kessler, P. Ibisch, R. Vásquez, and T. Krömer, have resulted in the addition of many new records for the flora since the last summary of

Bolivian bromeliads (Smith 1969). These include seven genera (*Araeococcus*, *Catopsis*, *Deinacanthon*, *Greigia*, *Mezobromelia*, *Pepinia*, and *Werauhia*) and 125 species. Nevertheless, it is clear that the record is incomplete, and further surveys are needed to clarify taxonomic problems and fragmentary distribution records.

METHODS

The following herbaria were surveyed for collections from Bolivia: Herbario Nacional de Bo-

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livia, La Paz (LPB), Museo de Historia Natural Noel Kempff, Santa Cruz (USZ), The Marie Selby Botanical Gardens, Sarasota (SEL), the Missouri Botanical Garden, St. Louis (MO), Institute of Botany, University of Vienna (WU), Utrecht University, Utrecht (U), and the personal Herbarium of R. Vásquez, Santa Cruz (VASQ). Principal literature references used were the Flora Neotropica Monograph Bromeliaceae treatments (Smith & Downs 1974, 1977, 1979), a preliminary country checklist by R. Foster (1958), a country-level family treatment by L.B. Smith (1969), and a modern epiphyte survey by P. Ibsch (1996). While an attempt was made to verify specimens of all taxa included in the list, the occurrence of some species in Bolivia is only known to us from literature sources or from identifications made by other botanists. For these, an indication of the citation or determiner source is made in the list.

The checklist was compiled from a database prepared at the Marie Selby Botanical Gardens which includes approximately 2250 herbarium records. Author abbreviations follow Brummitt and Powell (1992), abbreviations of literature citations follow Stafleu and Cowan (1976–1988) for books, and Lawrence et al. (1968) for journals. Herbarium acronyms follow Holmgren et al. (1990). All basionyms are included, as well as all species-level names based on types from Bolivia and pertinent recent synonymy. Distribution at the department level in Bolivia and the elevational range where the species occur are listed after each species, as well as the type collection, country where the type was collected, and where possible, an additional voucher specimen. The word "Endemic" is added if the species is wholly confined to the political boundaries of Bolivia.

Nomenclature used in the checklist follows that used in An Alphabetic list of Bromeliad Binomials (Luther & Sieff 1998) which recognizes three recently created or resurrected genera: *Racinaea* (Spencer & Smith 1993), *Werauhia* (Grant 1995), and *Pepinia* (Varadarajan & Gilmartin 1988). Species which formerly belonged to *Streptocalyx* can now be found in *Aechmea* (Smith & Spencer 1992).

RESULTS AND DISCUSSION

Although Bolivia's species totals still rank below those of other Andean countries (see Holst 1994), the number of genera (21, see TABLE 1) is second only to Venezuela. This high number reflects the unique biogeographical position of Bolivia at the meeting point of the humid northern and central Andes, the dry southern Andes,

TABLE 1. Species numbers of Bromeliaceae in Bolivia, arranged by subfamily and genus.

Subfamily/Genus	No. species in Bolivia	No. species endemic to Bolivia
PITCAIRNIOIDEAE		
<i>Deuterocohnia</i>	11	5
<i>Dyckia</i>	6	2
<i>Fosterella</i>	20	15
<i>Pepinia</i>	1	—
<i>Pitcairnia</i>	15	8
<i>Puya</i>	57	47
Subtotal:	110	77
BROMELIOIDEAE		
<i>Aechmea</i>	10	1
<i>Ananas</i>	2	—
<i>Araeococcus</i>	1	—
<i>Billbergia</i>	8	3
<i>Bromelia</i>	4	—
<i>Deinacanthos</i>	1	—
<i>Greigia</i>	3	3
<i>Pseudananas</i>	1	—
Subtotal:	30	7
TILLANDSIOIDEAE		
<i>Catopsis</i>	1	—
<i>Guzmania</i>	17	1
<i>Mezobromelia</i>	2	—
<i>Racinaea</i>	12	2
<i>Tillandsia</i>	97	31
<i>Vriesea</i>	9	—
<i>Werauhia</i>	3	1
Subtotal:	141	35
Family total:	281	119

Amazonia, the Gran Chaco, and the Brazilian Shield (FIGURE 1).

The 281 recorded species from the country (TABLE 1; APPENDIX) is still well below the number to be expected. Based on a species/area relationship in comparison to Peru, Ibsch (1996) estimated a total 300–350 bromeliad species for Bolivia. Considering the increase in species numbers in the last decades (on average, about four new species have been found per year since 1969), this estimate seems realistic. In 1997, seven new species were described from Bolivia (Till & Hromadnik 1997, Luther 1997, Ibsch et al. 1997, Gross 1997, Ehlers 1997, Ehlers & Hromadnik 1997, Till 1997); in 1998, six new taxa were described (Luther 1998a, 1998b), among them, three *Greigia* species; and in 1999 at least 8 new species have been published (Ibsch et al. 1999, Luther 1999, Ibsch et al. 1999, Kessler et al. 1999). Among the two latter papers are five new *Fosterella* species.

Almost 43% of the Bolivian bromeliads are endemic to the country (TABLE 1). This high number is due in large part to terrestrial taxa,

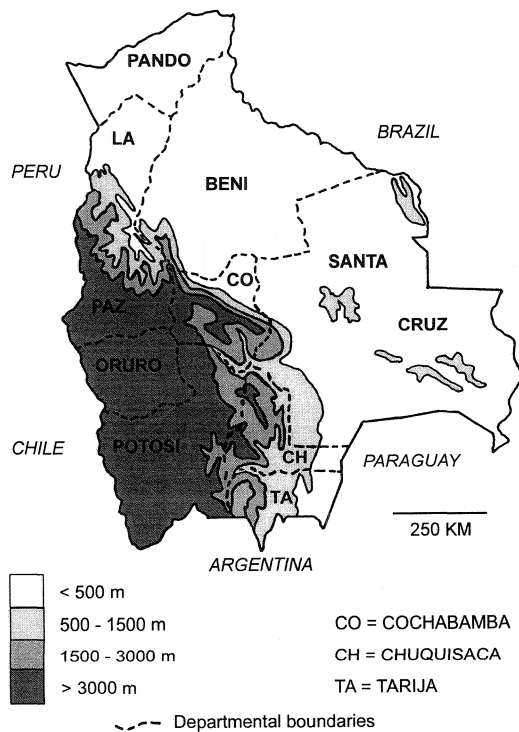


FIGURE 1. Bolivia. Political subdivisions and broad elevational zones.

particularly those in the subfamily Pitcairnioideae which has three genera (*Deuterocohnia*, *Fosterella*, *Puya*) with centers of diversity in Bolivia (Ibisch 1996). Eleven out of 15 *Deuterocohnia* species, 20 of approximately 25 *Fosterella* species occur in Bolivia, and 47 of the nearly 200 species of *Puya* are endemic. Somewhat surprisingly, the number of *Pitcairnia* species (15) is low compared to other Andean countries. This may be the result of inadequate sam-

pling or the fact that some morphologically and ecologically variable species (e.g., *P. cardenasii*, *P. crassa*, *P. trianae*) may include more than one species.

Another striking feature of the Bolivian bromeliad flora is the low number of large, green, tank bromeliads in the Tillandsioideae and Bromelioideae in the genera *Guzmania*, *Tillandsia*, *Vriesea*, and *Aechmea*. While this is in part due to inadequate sampling, these groups have their centers of diversity elsewhere; southeastern Brazil for *Aechmea* and *Vriesea*, and the northern Andes for *Guzmania* and *Tillandsia*.

Three departments contain more than 100 species each, La Paz, Cochabamba, and Santa Cruz (TABLE 2). While these appear to be the best sampled (ca. 1700 of the 2250 collection records in our database come from there), they are also the most varied topographically. At the other end of the sampling spectrum, our database contains only two Bromeliaceae collections from Oruro and 10 from Pando. While nearly all localities merit further collection for new Bromeliaceae, priorities include the humid mid-elevation forests (1500–2500 m) in La Paz, semi-humid forests at the transition of dry, rainshadowed valleys to humid montane forest in almost any valley system in La Paz and adjacent Cochabamba, and the interior portions of Amboró National Park in Santa Cruz. Although bromeliads occur at low densities in the Amazonian lowlands, a thorough search in Pando and the Amazonian part of Beni should yield elements of the Brazilian bromeliad flora which are not yet known from Bolivia. Likewise, the dry Chaco lowland and foothill forests of Chuquisaca and Tarija are likely to yield new discoveries. In most need of study taxonomically are the terrestrial and saxicolous genera, particularly *Puya* and *Pitcairnia*, and the largely epiphytic genus *Tillandsia*.

TABLE 2. Bromeliaceae species diversity, number of department- and country-level political endemic species, and number of collection records in database used.

Department	No. species	No. species wholly endemic to each department	No. Bolivian endemic species found in each department	No. collection records in database
La Paz	154	23	45	714
Santa Cruz	119	20	37	575
Cochabamba	115	14	35	417
Chuquisaca	65	8	24	220
Tarija	63	12	18	146
Potosí	30	3	12	78
Beni	28	—	2	67
Pando	6	—	—	10
Oruro	2	—	—	2

The database resulting from this project is available to all those who want to contribute further records or use it for purposes of research or conservation. Please contact B. Holst or M. Kessler for more information.

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APPENDIX

Checklist of Bolivian Bromeliaceae

Department abbreviations. BE—Beni; CH—Chuquisaca; CO—Cochabamba; LP—La Paz; OR—Oruro; PA—Pando; PO—Potosí; TA—Tarija.

Type designations. HT—Holotype; IT—Isotype; LT—Lectotype; ILT—Isolectotype; CT—Clonotype.

Endemic = confined to the political boundaries of Bolivia.

AECHMEA

Aechmea angustifolia Poepp. & Endl., Nov. gen. sp. Pl. 2: 43. 1838.

Synonym(s): *Aechmea boliviana* Rusby, Bull. New York Bot. Gard. 4: 456. 1907; *Aechmea inconspicua* Harms, Notizbl. Bot. Gart. Berlin-Dahlem 10: 786. 1929.

Dept.: BE, CO, LP, PA, SC.

Elevation: 150–1300 m.

Type: *Poeppig 1823*. HT: W (lost). Peru.

Voucher: *M. Kessler et al. 8457* (LPB, SEL).

Aechmea bromeliifolia (Rudge) Baker, in Benth. & Hook. f., Gen. pl. 3: 664. 1883. Basionym: *Tillandsia bromeliaefolia* Rudge, Pl. Guian. 32, t. 50. 1807.

Synonym(s): *Aechmea ellipsoidea* Rusby, Mem. New York Bot. Gard. 7: 212. 1927.

Dept.: BE, CH, LP, SC.

Elevation: 200–1350 m.

Type: *Martin s.n.* HT: BM. French Guiana.

Voucher: *J. Solomon 6179* (SEL).

Aechmea castelnavii Baker, Handb. Bromel. 39. 1889.

Dept.: SC.

Elevation: 300–350 m.

Type: *Castelnau s.n.* HT: P. Bolivia.

Voucher: In Bolivia, only known from type collection.

Aechmea distichantha Lem., Jard. Fleur. 3: t. 269. 1853.

Synonym(s): *Platyachmea distichantha* (Lem.) L.B. Sm. & Kress, Phytologia 69: 272. 1990.

Dept.: CH, CO, LP, SC, TA.

Elevation: 200–1900 m.

Type: *Libon s.n.* HT: BR?. Brazil.

Voucher: *B. Holst et al. 4948* (USZ, SEL).

Aechmea fuerstenbergii E. Morren & Wittm., Belgique Hort. 29: 42. 1879.

Synonym(s): *Streptocalyx fuerstenbergii* (E. Morren & Wittm.) E. Morren, Belgique Hort. 33: 16. 1883.

Dept.: BE, LP.

Elevation: 300–850(–1050?) m.

Type: *Porte s.n.* HT: LG. Brazil.

Voucher: *T. Krömer* (GOET, LPB, SEL).

Aechmea kuntzeana Mez, in C. DC., Monogr. phan. 9: 208. 1896.

Dept.: BE, LP, SC.

Elevation: 150–1000 m.

Type: *Kuntze s.n.* HT: NY; IT: US. Bolivia.

Voucher: *M. Kessler 3791* (LPB, SEL).

Endemic.

Aechmea longifolia (Rudge) L.B. Sm. & M.A. Spencer, Phytologia 72: 97. 1992. Basionym: *Bromelia longifolia* Rudge, Guian. 1: 31, pl. 49. (1805) 1806.

Synonym(s): *Streptocalyx longifolius* (Rudge) Baker, Handb. Bromel. 31. 1889.

Dept.: CO.

Elevation: 300–500 m.

Type: *Martin s.n.* HT: BM. French Guiana.

Voucher: *M. Kessler et al. 8538* (LPB, SEL).

Aechmea mertensii (G. Mey.) Schult. & Schult.f., in Roem. & Schult., Syst. veg. 7(2): 1272. 1830. Basionym: *Bromelia mertensii* Mey., Prim. fl. esseq. 144. 1818.

Dept.: BE, PA.

Elevation: ca. 200 m.

Type: *E.K. Rodschied s.n.* HT: GOET. Guyana.

Voucher: *S. Beck et al. 19320* (SEL).

Aechmea setigera Mart. ex Schult. & Schult.f., in Roem. & Schult., Syst. veg. 7(2): 1273. 1830.

Dept.: BE, SC.

Elevation: 150–400 m.

Type: *C. Martius s.n.* HT: M. Brazil.

Voucher: *S. Beck et al. 5978* (LPB, SEL).

Aechmea tocantina Baker, Handb. Bromel. 39. 1889.

Dept.: BE, SC.

Elevation: 250–500 m.

Type: *Weddell 2365*. HT: P. Brazil.

Voucher: *R. Vásquez et al. 1813* (VASQ).

ANANAS

Ananas ananassoides (Baker) L.B. Sm., Bot. Mus. Leaf. 7: 70. 1939. Basionym: *Acanthostachys ananassoides* Baker, Handb. Bromel. 25. 1889.

Dept.: BE, LP, PA, SC.

Elevation: 150–900 m.

Type: *LT: Regnell (III) 1261* in part. HT: P. Brazil.

Voucher: *M. Morães et al. 1633* (SEL).

Ananas comosus (L.) Merr., Interpr. Herb. amboin. 133. 1917. Basionym: *Bromelia comosa* L., Herb. amb. 21. 1754.

Dept.: Widely cultivated.

Elevation: range unknown.

Type: Type not yet selected.

Voucher: *M. Lewis 37568* (SEL).

ARAEOCOCCUS

Araeococcus flagellifolius Harms, Notizbl. Bot. Gart. Berlin-Dahlem 10: 784. 1929.
Dept.: SC.
Elevation: 200–250 m.
Type: *Huebner 58*. HT: B. Brazil.
Voucher: *A. Jardim et al. 53* (SEL).

BILLBERGIA

Billbergia brasiliensis L.B. Sm., Arq. Bot. Estado São Paulo II. 1: 105. 1943. Basionym: *Heliconia leopoldii* Versch. Hort ex Lem., Ill. Hort. 11: sub pl. 421. 1864.

Synonym(s): *Billbergia leopoldii* (Versch. Hort. ex Lem.) Linden ex Houliet, Rev. Hort. 41: 87. 1869; non K. Koch 1857.

Dept.: Unknown.
Elevation: Unknown.
Type: *De Vos in Verschaffelt Hortus s.n.* Description and illustration. Brazil.
Voucher: *D. Beadle SU 126* (SEL).

Billbergia cardenasii L.B. Sm., Phytologia 4: 382. 1953.

Dept.: CO?.
Elevation: Unknown.
Type: *Cárdenas 4907*. HT: US. Bolivia.
Voucher: *D. Beadle SU 029* (SEL).

Endemic.

Billbergia decora Poepp. & Endl., Nov. gen. sp. pl. 2: 42, t. 157. 1838.

Synonym(s): *Billbergia boliviensis* Baker, Handb. Bromel. 81. 1889.

Dept.: LP.
Elevation: 2400 m.
Type: *Poeppig s.n.* HT: W (lost). Peru.
Voucher: *H. Rusby 2853* (NY). Cited for Bolivia in: *Fl. Neotrop. Monogr.* 14(3): 2021. 1979.

Billbergia meyeri Mez, Bot. Jahrb. Syst. 30: 148. 1902.

Dept.: SC.
Elevation: 150–450 m.
Type: *Pilger 705*. HT: B. Brazil.
Voucher: *R. Guillén 1910* (SEL).

Billbergia microlepis L.B. Sm., Phytologia 8: 504. 1963.

Dept.: CO, LP.
Elevation: 700–1500 m.
Type: *B. Krukoff 11158*. HT: GH. Bolivia.
Voucher: *A. Gentry et al. 44301* (SEL).

Endemic.

Billbergia robert-readii E. Gross & Rauh, Trop. Subtrop. Pflanzenwelt 60: 89. 1987.

Dept.: BE, LP.
Elevation: 600–700 m.
Type: *Rauh 26163*. HT: HEID. Peru.
Voucher: *T. Krömer 137* (GOET, LPB, SEL).

Billbergia velascana M. Cárdenas, Bull. Bromeliad Soc. 7: 35. 1957.

Dept.: SC.
Elevation: 250–850 m.

Type: *Father Lorenzo Hammerschmidt 5486*. HT: Cárdenas Herbarium (LIL?). Bolivia.

Voucher: *D. Beadle SU 029A* (SEL).

Endemic.

Billbergia violacea Beer, Fam. Bromel. 116. 1856.
Dept.: CO, SC.

Elevation: 200–1600 m.
Type: *Appun s.n.* HT: B?. "Brazil" Guyana.
Voucher: *R. Vásquez & Ric 1845* (VASQ).

Bromelia balansae Mez, in Mart., Fl. bras. 3(3): 191. 1891.

Dept.: BE, SC.
Elevation: 150–800 m.
Type: *Balansa 608*. HT: G. Paraguay.
Voucher: *S. Beck 20689* (LPB, SEL).

BROMELIA

Bromelia hieronymi Mez, in Mart., Fl. bras. 3(3): 199. 1891.

Dept.: SC, TA.
Elevation: 250–700 m.
Type: *Hieronymus & Lorentz s.n.* HT: B; IT: US. Argentina.
Voucher: *M. Nee & G. Coimbra S. 39933* (LPB).

Bromelia serra Griseb., Abh. Königl. Ges. Wiss. Göttingen 24: 328. 1879.

Dept.: BE, LP, SC.
Elevation: 150–1400 m.
Type: *Lorentz & Hieronymus s.n.* LT: GOET. Argentina.
Voucher: *M. Morães et al. 1631* (LPB, SEL).

Bromelia villosa Mez, Bot. Jahrb. Syst. 30 (Beibl. 67): 3. 1901.

Dept.: SC.
Elevation: 400 m.
Type: *Glaziou 22191*. HT: B. Brazil.
Voucher: *Fuentes 1148* (USZ).

CATOPSIS

Catopsis sessiliflora (Ruiz & Pav.) Mez, in C. DC., Monogr. phan. 9: 625. 1896. Basionym: *Tillandsia sessiliflora* Ruiz & Pav., Fl. peruv. 3: 42, pl. 271, fig. b. 1802.

Dept.: LP.
Elevation: 1250–1300 m.
Type: *Ruiz & Pavon s.n.* HT: M; IT: B. Peru.
Voucher: *M. Kessler et al. 10320* (LPB, SEL).

DEINACANTHON

Deinacanthon urbanianum (Mez) Mez, in C. DC., Monogr. phan. 9: 13. 1896. Basionym: *Rhodostachys urbaniana* Mez, in Mart., Fl. bras. 3(3): 182. 1891.

Dept.: SC.
Elevation: 400 m.
Type: *Hieronymus s.n.* HT: G; IT: B, CORD, GH, US. Argentina.
Voucher: *G. Navarro 2221* (USZ). Det. G. Navarro.

DEUTEROCOHNIA

Deuterocohnia bracteosa W. Till & L. Hrom., Bromelia 4(1): 19. 1997.

Dept.: CH.

Elevation: 3000 m.

Type: *L. Hromadnik 19029*. HT: WU. Bolivia.

Voucher: Only known from type collection.

Endemic.

Deuterocohnia brevifolia (Griseb.) M.A. Spencer & L.B. Sm., Bradea 6: 144. 1993. Basionym: *Navia brevifolia* Griseb., Abh. Königl. Ges. Wiss. Göttingen 24: 332. 1879.

Synonym(s): *Abromeitiella brevifolia* (Griseb.) A. Cast., Anales Mus. Nac. Hist. Nat. Buenos Aires 36: 371. 1931; *Abromeitiella pulvinata* Mez, Bot. Archiv. 19: 460. 1927.

Dept.: TA.

Elevation: 1700–2400 m.

Type: *Lorentz & Hieronymus 947* (in part). HT: GOET; IT: CORD. Argentina.

Voucher: *S. Beck 14276* (SEL).

Deuterocohnia brevispicata Rauh & L. Hrom., Trop. Subtrop. Pflanzenwelt 65: 5. 1988.

Dept.: CH.

Elevation: 1200–1300(–2050) m.

Type: *Hromadnik 5213*. HT: HEID. Bolivia.

Voucher: *D. Cathcart B52* (SEL).

Endemic.

Deuterocohnia digitata L.B. Sm., Phytologia 18: 137. 1969.

Dept.: CO, PO, SC, TA.

Elevation: 1900–2750 m.

Type: *Castellanos s.n.* HT: BA; IT: US. Argentina.

Voucher: *I. Vargas 3185* (SEL).

Deuterocohnia glandulosa E. Gross, Trop. Subtrop. Pflanzenwelt 75: 5. 1990.

Dept.: TA.

Elevation: 1200 m.

Type: *Hromadnik 5167*. HT: HEID. Bolivia.

Voucher: Only known from type collection.

Endemic.

Deuterocohnia longipetala (Baker) Mez, in Mart., Fl. bras. 3(3): 506. 1894. Basionym: *Dyckia longipetala* Baker, Handb. Bromel. 135. 1889.

Dept.: CO, SC, TA.

Elevation: 300–2100 m.

Type: *Humboldt & Bonpland 3595*. HT: B. Peru.

Voucher: *J. Balcazar 100* (USZ, SEL).

Deuterocohnia lorentziana (Mez) M.A. Spencer & L.B. Sm., Bradea 6: 144. 1993. Basionym: *Pitcairnia lorentziana* Mez, in C. DC., Monogr. phan. 9: 974. 1896.

Synonym(s): *Abromeitiella lorentziana* (Mez) A. Cast., Lilloa 10: 459. 1944.

Dept.: PO, TA.

Elevation: 2650–3150 m.

Type: *Lorentz s.n.* HT: B. Argentina.

Voucher: *W. Till 62a* (WU).

Deuterocohnia lotteae (Rauh) M.A. Spencer & L.B. Sm., Bradea 6: 145. 1993. Basionym:

Abromeitiella lotteae Rauh, Trop. Subtrop. Pflanzenwelt 42: 5. 1983.

Dept.: TA.

Elevation: 2700 m.

Type: *Hromadnik 5131*. HT: HEID. Bolivia.

Voucher: *W. Till 62 A* (WU).

Endemic.

Deuterocohnia meziana Kuntze ex Mez, in C. DC., Monogr. phan. 9: 465. 1896.

Dept.: SC.

Elevation: 200–1350 m.

Type: *O. Kuntze s.n.* HT: NY. Brazil.

Voucher: *M. Nee 35601* (LPB).

Deuterocohnia scapigera (Rauh & L. Hrom.) M.A. Spencer & L.B. Sm., Bradea 6: 141–145. 1993. Basionym: *Abromeitiella scapigera* Rauh & L. Hrom., Trop. Subtrop. Pflanzenwelt 60: 5. 1987.

Dept.: CH, PO.

Elevation: 1200–2400 m.

Type: *Hromadnik 5275*. HT: HEID. Bolivia.

Voucher: *M. Kessler et al. 5085* (LPB, SEL).

Endemic.

Deuterocohnia strobilifera Mez, Repert. Spec. Nov. Regni Veg. 3: 15. 1906.

Dept.: CH, PO, TA.

Elevation: 2500–3550 m.

Type: *Fiebrig 2933*. HT: B. Bolivia.

Voucher: *S. Beck 14122* (LPB). Det. G. Varadarajan.

DYCKIA

Dyckia crassifolia Rauh, Trop. Subtrop. Pflanzenwelt 79: 10. 1991.

Dept.: SC.

Elevation: 1200 m.

Type: *W. Rauh 40670*. HT: HEID. Bolivia.

Voucher: Only known from type collection.

Endemic.

Dyckia ferox Mez, in C. DC., Monogr. phan. 9: 511. 1896.

Synonym(s): *Dyckia meziana* O. Kuntze, Revis. gen. pl. 3(2): 302. 1898.

Dept.: SC.

Elevation: 1200 m.

Type: *Kuntze s.n.* HT: NY. Paraguay.

Voucher: *M. Cardenas 2679* (GH). Cited for Bolivia in: Fl. Neotrop. Monogr. 14(1): 543. 1974.

Dyckia ferruginea Mez, in C. DC., Monogr. phan. 9: 533. 1896.

Dept.: SC.

Elevation: 300 m.

Type: *Kuntze s.n.* HT: NY. Brazil.

Voucher: *P. Ibsch et al. 93.0614* (FR, LPB, SEL).

Dyckia gracilis Mez, in C. DC., Monogr. phan. 9: 516. 1896.

Dept.: SC.

Elevation: 200–700 m.

Type: *D'Orbigny 1006*. HT: P; IT: G. Bolivia.

Voucher: *A. Fuentes 1151* (LPB, USZ).

Dyckia leptostachya Baker, Gard. Chron. 1884(2): 198. 1884.

Synonym(s): *Dyckia boliviensis* Mez in C. DC.,
Monogr. phan. 9: 524. 1896.

Dept.: CH, SC.

Elevation: 350–500(–1850?) m.

Type: *Kew Hortus*. HT: K. Brazil.

Voucher: *T. Killeen et al.* 7030 (SEL).

Dyckia pulquinensis Wittm., *Rijks-Herb.* 29: 88.
1916.

Dept.: SC.

Elevation: 1500 m.

Type: *Herzog 1849*. HT: L; IT: B. Bolivia.

Voucher: *G. Balcazar 35* (USZ).

Endemic.

FOSTERELLA

Fosterella albicans (Griseb.) L.B. Sm., *Phytologia*
7: 171. 1960. Basionym: *Cottendorfia albicans*
Griseb., *Abh. Königl. Ges. Wiss. Göttingen* 24:
330. 1879.

Synonym(s): *Lindmania alibicans* (Griseb.) Mez in
C. DC., *Monogr. phan.* 9: 537. 1896.

Dept.: CH, CO, LP, SC.

Elevation: 900–2150 m.

Type: *Lorentz & Hieronymus 502*. HT: GOET; IT:
B, CORD. Argentina.

Voucher: *B. Holst et al.* 4837 (USZ, SEL).

Fosterella caulescens Rauh, *Trop. Subtrop. Pflan-*
zenwelt 31: 23. 1979.

Dept.: LP.

Elevation: 1200 m.

Type: *W. Rauh 40579A*. HT: HEID. Bolivia.

Voucher: Only known from type collection.

Endemic.

Fosterella chaparensis Ibisch, Vasquez & Gross,
Rev. Soc. Boliviana Bot. 2(2): 118. 1999.

Dept.: CO.

Elevation: 600 m.

Type: *R. Vasquez & M.I. Vásquez 2792*. HT: LPB;
IT: FR, USZ. Bolivia.

Voucher: Only known from type collection.

Endemic.

Fosterella chiquitana Ibisch, Vasquez & Gross,
Rev. Soc. Boliviana Bot. 2(2): 118. 1999.

Dept.: SC.

Elevation: 500 m.

Type: *P. Ibisch 98.0125*. HT: LPB; IT: USZ. Boliv-
ia.

Voucher: Only known from type collection.

Endemic.

Fosterella cotacajensis M. Kessler, P. Ibisch & E.
Gross, *Rev. Soc. Boliviana Bot.* 2(2): 111.
1999.

Dept.: CO, LP.

Elevation: 2000–2200 m.

Type: *Kessler et al.* 9620. HT: LPB; IT: SEL. Bo-
livia.

Voucher: *M. Kessler et al.* 5531 (LPB).

Endemic.

Fosterella elata H. Luther, *Selbyana* 5: 310. 1981.

Dept.: LP.

Elevation: 900–1500 m.

Type: *Luer et al. s.n.* HT: SEL; IT: US. Bolivia.

Voucher: *M. Kessler et al.* 5726 (LPB, SEL).

Endemic.

Fosterella floridensis Ibisch, Vasquez & Gross,
Rev. Soc. Boliviana Bot. 2(2): 120. 1999.

Dept.: SC.

Elevation: 1100–1450 m.

Type: *Ibisch & Ibisch 97.83*. HT: LPB; IT: FR, USZ.
Bolivia.

Voucher: *Vasquez 1808* (JBSCZ).

Endemic.

Fosterella gracilis (Rusby) L.B. Sm., *Phytologia* 7:
171. 1960. Basionym: *Catopsis gracilis* Rusby,
Bull. New York Bot. Gard. 6: 489. 1910.

Synonym(s): *Lindmania gracilis* (Rusby) L.B. Sm.,
Contr. Gray Herb 104: 78. 1934.

Dept.: LP.

Elevation: 500 m.

Type: *R.S. Williams 738*. HT: NY. Bolivia.

Voucher: *White 1086* (NY). Cited in *Fl. Neotrop.*
Monogr. 14(1): 209. 1974.

Endemic.

Fosterella graminea (L.B. Sm.) L.B. Sm., *Phyto-*
logia 7: 171. 1960. Basionym: *Lindmania gra-*
minea L.B. Sm., *Lilloa* 14: 93. 1948.

Dept.: LP.

Elevation: 700–900(–1450?) m.

Type: *Buchtien 417*. HT: US. Bolivia.

Voucher: *M. Kessler 4100* (LPB, SEL).

Endemic.

Fosterella heterophylla Rauh, *Trop. Subtrop.*
Pflanzenwelt 60: 24. 1987.

Dept.: LP.

Elevation: 1000 m.

Type: *W. Rauh 40583A*. HT: HEID. Bolivia.

Voucher: Only known from type collection.

Endemic.

Fosterella latifolia Ibisch, Vasquez & Gross, *Rev.*
Soc. Bol. Bot. 2(2): 123. 1999.

Dept.: SC.

Elevation: 450–1000 m.

Type: *P. Ibisch 98.0098*. HT: LPB; IT: FR, USZ.
Bolivia.

Voucher: *Ibisch 98.0173* (USZ).

Endemic.

Fosterella pearcei (Baker) L.B. Sm., *Phytologia* 7:
172. 1960. Basionym: *Cottendorfia pearcei*
Baker, *Handb. Bromel.* 128. 1889.

Synonym(s): *Lindmania pearcei* (Baker) Mez in C.
DC., *Monogr. phan.* 9: 537. 1896.

Dept.: LP.

Elevation: 750–900 m.

Type: *Pearce s.n.* HT: BM. Bolivia.

Voucher: *B. Krukoff 10328* (GH, LPB, NY). Cited
for Bolivia in *Fl. Neotr.* 14(1): 202. 1974.

Endemic.

Fosterella penduliflora (C.H. Wright) L.B. Sm.,
Phytologia 7: 172. 1960. Basionym: *Catopsis*
penduliflora C.H. Wright, *Bull. Misc. Inform.*
1910: 197. 1910.

Synonym(s): *Lindmania penduliflora* (C.H. Wright)
Stapf, Bot. Mag. 150: pl. 9029. 1924.

- Dept.: CH, LP, SC, TA.
Elevation: 550–1450 m.
Type: *Forget s.n.* HT: K. Peru.
Voucher: *M. Kessler et al. 4214* (LPB, SEL).
- Fosterella rojasii** (L.B. Sm.) L.B. Sm., *Revista Argent. Agron.* 7: 162. 1940. Basionym: *Lindmania rojasii* L.B. Sm., *Phytologia* 7: 172. 1960.
Dept.: SC.
Elevation: 450–500 m.
Type: *Rojas 6771*. HT: GH. Paraguay.
Voucher: *H. Amerhauser 5* (WU).
- Fosterella rusbyi** (Mez) L.B. Sm., *Phytologia* 7: 172. 1960. Basionym: *Lindmania rusbyi* Mez, *Bot. Jahrb. Syst.* 30 (Beibl. 67): 6. 1901.
Dept.: LP.
Elevation: 850–1500(–1800?) m.
Type: *Bang 2571*. HT: B; IT: BM, F, G, GH, K, NY, US. Bolivia.
Voucher: *M. Lewis 36936* (MO, SEL). “cf.”.
- Fosterella schidosperma** (Baker) L.B. Sm., *Phytologia* 8: 500. 1963. Basionym: *Chlorophytum schidospermum* Baker, *J. Linn. Soc., Bot.* 15: 326. 1876.
Synonym(s): *Cottendorfia rusbyi* Baker, *Bull. Torrey Bot. Club* 29: 697. 1902, non *Lindmania rusbyi* Mez, 1901; *Lindmania schidosperma* (Baker) P. Ravenna, *Wrightia* 7(3): 253. 1983.
Dept.: CO, LP.
Elevation: 750–2000 m.
Type: *Lechler 2382*. HT: CGE?; IT: G?. Peru.
Voucher: *M. Kessler et al. 7786* (LPB, SEL). “cf.”.
- Fosterella spectabilis** H. Luther, *J. Bromeliad Soc.* 47: 118. 1997.
Dept.: SC.
Elevation: 1700 m.
Type: *Cathcart B 17*. HT: SEL; IT: LPB, MO, NY, US, WU. Bolivia.
Voucher: Only known from type collection.
Endemic.
- Fosterella vasquezii** E. Gross & P. Ibsch, *J. Bromeliad Soc.* 47: 212. 1997.
Dept.: SC.
Elevation: 200–850 m.
Type: *Ibsch et al. 930652*. HT: HEID; IT: LPB. Bolivia.
Voucher: *F. Mamani & A. Jardim 1261*(USZ, SEL).
Endemic.
- Fosterella villosula** (Harms) L.B. Sm., *Phytologia* 7: 172. 1960. Basionym: *Lindmania villosula* Harms, *Notizbl. Bot. Gart. Berlin-Dahlem* 10: 794. 1929.
Dept.: CO, LP, SC.
Elevation: 800–1600 m.
Type: *Werdermann 2120*. HT: B. Bolivia.
Voucher: *M. Kessler et al. 4109* (LPB, SEL).
Endemic.
- Fosterella weddelliana** (Brongn. ex Baker) L.B. Sm., *Phytologia* 7: 172. 1960. Basionym: *Cottendorfia weddelliana* Brongn. ex Baker, *Handb. Bromel.* 129. 1889.
Synonym(s): *Lindmania weddelliana* (Brongn. ex

- Baker) Mez in C. DC., *Monogr. phan.* 9: 538. 1896.
Dept.: LP.
Elevation: 900–1800 m.
Type: *Weddell 4233*. HT: P. Bolivia.
Voucher: *M. Lewis 40425* (LPB, MO, SEL).
Endemic.

GREIGIA

- Greigia atrocastanea** H. Luther, *Selbyana* 19: 218. 1998 [1999].
Dept.: LP.
Elevation: (2500?–)3300 m.
Type: *E. Garcia 1977*. HT: SEL; IT: LPB. Bolivia.
Voucher: *M. Kessler et al. 12135* (LPB, SEL).
Endemic.
- Greigia cochabambae** H. Luther, *Selbyana* 19: 83. 1998.
Dept.: CO, LP.
Elevation: 2100–2700 m.
Type: *M. Kessler et al. 7111*. HT: SEL; IT: LPB. Bolivia.
Voucher: *M. Kessler et al. 12132* (LPB, SEL).
Endemic.
- Greigia kessleri** H. Luther, *Selbyana* 19: 83. 1998.
Dept.: CO, LP.
Elevation: 2200–3250 m.
Type: *M. Kessler et al. 9067*. HT: SEL; IT: LPB. Bolivia.
Voucher: *M. Kessler et al. 10519* (LPB, SEL).
Endemic.

GUZMANIA

- Guzmania besseae** H. Luther, *Selbyana* 5: 310. 1981.
Dept.: CO, LP, SC.
Elevation: 1950–2600 m.
Type: *L. Besse et al. 669*. HT: SEL; IT: US. Bolivia.
Voucher: *P. Ibsch & C. Ibsch 93.0111* (LPB, SEL).
- Guzmania bipartita** L.B. Sm., *Phytologia* 6: 437. 1959.
Dept.: LP, SC.
Elevation: 1200–1500 m.
Type: *Asplund 19474*. HT: S. Ecuador.
Voucher: *M. Kessler et al. 10092* (LPB, SEL).
- Guzmania calothyrsus** Mez, in C. DC., *Monogr. phan.* 9: 910. 1896.
Dept.: BE, CO, LP, SC.
Elevation: 200–1300 m.
Type: *Poeppig 1224*. HT: W (lost). Peru.
Voucher: *T. Krömer et al. 57* (LPB, SEL).
- Guzmania danielii** L.B. Sm., *Phytologia* 4: 360. 1953.
Dept.: CO, LP?.
Elevation: 1700–2700 m.
Type: *Daniel 3350*. HT: GH; IT: US. Colombia.
Voucher: *M. Kessler et al. 9027* (LPB, SEL).
- Guzmania gloriosa** (André) André ex Mez, in C.

- DC., Monogr. phan. 9: 922. 1896. Basionym: *Caraguata gloriosa* André, Énum. Bromél. 5. 13 Dec. 1888; Rev. Hort. 60: 565. 16 Dec. 1888.
Dept.: CO, LP.
Elevation: 1300–1600 m.
Type: *André 3791*. HT: K. Ecuador.
Voucher: *M. Kessler et al. 7446* (LPB, SEL).
- Guzmania killipiana** L.B. Sm., Contr. Gray Herb. 98: 29. 1932.
Dept.: CO, LP.
Elevation: 1150–2500 m.
Type: *Killip & Smith 25630*. HT: US. Peru.
Voucher: *M. Kessler et al. 6957* (LPB, SEL).
- Guzmania lingulata** (L.) Mez, in C. DC., Monogr. phan. 9: 899. 1896. Basionym: *Tillandsia lingulata* L., Sp. pl. 1: 286. 1753.
Dept.: LP, SC.
Elevation: 500–1450 m.
Type: *Plumier s.n.* HT: P. West Indies.
Voucher: *M. Saldias & L. Arroyo 3572* (SEL).
- Guzmania marantoidea** (Rusby) H. Luther, Selbyana 19: 86. 1998. Basionym: *Tillandsia marantoidea* Rusby, Descr. S. Amer. pl. 4. 1920.
Synonym(s): *Guzmania rio-nievensis* Rauh, Trop. Subtrop. Pflanzenwelt 50: 22. 1984.
Dept.: CO, LP.
Elevation: 1300–2650 m.
Type: *Bang 2570*. HT: NY; IT: US. Bolivia.
Voucher: *M. Kessler et al. 7843* (LPB, SEL).
- Guzmania melinonis** Regel, Gartenflora 34: 116. 1885.
Dept.: CO, LP, SC.
Elevation: 300–1200 m.
Type: *Linden in Petrograd Hortus s.n.* HT: LE. French Guiana.
Voucher: *M. Kessler et al. 8058* (LPB, SEL).
- Guzmania monostachia** (L.) Rusby ex Mez, in C. DC., Monogr. phan. 9: 905. 1896. Basionym: *Renealmia monostachia* L., Sp. pl. 1: 287. 1753.
Dept.: LP.
Elevation: 1300 m.
Type: *Plumier s.n.* HT: P. West Indies.
Voucher: *M. Kessler et al. 10305* (LPB, SEL).
- Guzmania morreniana** (Linden Hortus) Mez, in C. DC., Monogr. phan. 9: 932. 1896. Basionym: *Massangea morreniana* Linden Hortus, Cat. Expos. Brux. 1880.
Dept.: CO, LP.
Elevation: 2200–2300 m.
Type: *E. Morren Hortus s.n.* CT: LG. South America.
Voucher: *S. Beck 22273* (LPB, SEL).
- Guzmania remediosensis** E. Gross, Trop. Subtrop. Pflanzenwelt 95: 20. 1997.
Dept.: LP.
Elevation: Unknown.
Type: *M. Miyagawa s.n.* HT: HEID. Bolivia.
Voucher: Only known from type collection.
Endemic.
- Guzmania retusa** L.B. Sm., Fieldiana, Bot. 28(1): 143. 1951.
Dept.: CO, LP.
Elevation: 1300–1700 m.
Type: *J. Steyermark 60677*. HT: F. Venezuela.
Voucher: *M. Kessler et al. 7401* (LPB, SEL).
- Guzmania roezlii** (E. Morren) Mez, in C. DC., Monogr. phan. 9: 948. 1896. Basionym: *Schlumbergeria roezli* E. Morren, Belgique Hort. 28: 311. 1878.
Dept.: BE, CO, LP.
Elevation: 550–1450 m.
Type: *Roezl in Morren Hortus s.n.* CT: LG. Peru.
Voucher: *T. Krömer 185* (LPB, SEL).
- Guzmania sphaeroidea** (André) André ex Mez, in C. DC., Monogr. phan. 9: 942. 1896. Basionym: *Caraguata sphaeroidea* André, Énum. Bromél. 6. 13 Dec. 1888; Rev. Hort. 60: 566. 16 Dec. 1888.
Dept.: CO, LP.
Elevation: 1150–1500 m.
Type: *André 2685*. HT: K. Colombia.
Voucher: *M. Kessler et al. 11282* (LPB, SEL).
- Guzmania squarrosa** (Mez & Sodiro) L.B. Sm. & Pittendr., J. Wash. Acad. Sci. 43: 403. 1953 [1954]. Basionym: *Thecophyllum squarrosom* Mez & Sodiro, Bull. Herb. Boissier, sér. 2, 4: 877. 1904.
Dept.: CO, LP.
Elevation: 1850–2700 m.
Type: *Sodiro 47*. HT: B. Ecuador.
Voucher: *S. Beck 21288* (LPB, SEL).
- Guzmania tarapotina** Ule, Verh. Bot. Vereins Prov. Brandenburg 48: 147. 1907.
Dept.: LP.
Elevation: 600(–2350) m.
Type: *Ule 6683*. HT: B. Peru.
Voucher: *S. Beck 24037* (LPB, SEL).

MEZOBROMELIA

- Mezobromelia capituligera** (Griseb.) J.R. Grant, Phytologia 74: 428. 1993. Basionym: *Tillandsia capituligera* Griseb., Cat. pl. Cub. 254. 1866.
Dept.: CO, LP.
Elevation: 1300–2200 m.
Type: *Wright 3275*. HT: GOET; IT: GH. Cuba.
Voucher: *M. Kessler et al. 7376* (LPB, SEL).
- Mezobromelia pleiosticha** (Griseb.) Utley & H. Luther, Ann. Missouri Bot. Gard. 78: 270. 1991. Basionym: *Tillandsia pleiosticha* Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts- Univ. [1]: 19. 1864.
Dept.: LP.
Elevation: 1300 m.
Type: *A. Fendler 1514*. HT: GOET. Venezuela.
Voucher: *M. Kessler et al. 9869* (LPB, SEL).

PEPINIA

- Pepinia caricifolia** (Mart. ex Schult. f.) G.S. Varad. & Gilmartin, Syst. Bot. 13: 297. 1988. Basionym:

ym: *Pitcairnia caricifolia* Mart. ex Schult. f., in Roem. & Schult., Syst. Veg. 7(2): 1242. 1830.
Dept.: PA, SC.
Elevation: 150–300 m.
Type: *C. Martius s.n.* HT: M. Brazil.
Voucher: *T. Killeen et al. 5448* (SEL).

PITCAIRNIA

Pitcairnia amoroensis Ibisch, Vásquez, Gross & Kessler, J. Bromeliad Soc. 49: 129. 1999.

Dept.: SC.
Elevation: 500–600 m.
Type: *P. Ibisch & C. Ibisch 97.0004A*. HT: LPB. Bolivia.
Voucher: *M. Kessler et al. 8660* (GOET, LPB, SEL).
Endemic.

Pitcairnia aurea Rusby ex L.B. Sm., Phytologia 19: 286. 1970.

Dept.: LP.
Elevation: 900 m.
Type: *H. Rusby 665*. HT: NY. Bolivia.
Voucher: Only known from type collection.
Endemic.

Pitcairnia brittoniana Mez, in C. DC., Monogr. phan. 9: 451. 1896.

Synonym(s): *Hepetis brittoniana* (Mez) Mez in C. DC., Monogr. phan. 9: 973. 1896.
Dept.: CO(?), LP.
Elevation: 1200–1700 m.
Type: *Bang 592*. HT: US; IT: NY. Bolivia.
Voucher: *J. Solomon 9281* (LPB, SEL).

Pitcairnia cardenasii L.B. Sm., Phytologia 8: 505. 1963.

Dept.: CH, LP, SC.
Elevation: 800–2000 m.
Type: *Cárdenas 4648*. HT: US. Bolivia.
Voucher: *Guardia et al. 230* (SEL).
Endemic.

Pitcairnia crassa L.B. Sm., Lilloa 14: 94. 1948.

Dept.: LP, SC.
Elevation: 700–1400 m.
Type: *Cárdenas 3690*. HT: GH. Bolivia.
Voucher: *T. Krömer et al. 126* (LPB, SEL).
Endemic.

Pitcairnia divaricata Wittm., Rijks-Herb. 29: 81. 1916.

Dept.: LP, SC, TA?.
Elevation: 900–1300(–1900) m.
Type: *Herzog 1212*. HT: L; IT: B. Bolivia.
Voucher: *S. Beck 1765* (LPB).
Endemic.

Pitcairnia inermis (E. Mey.) E. Mey. ex Schult. & Schult. f., in Roem. & Schult., Syst. veg. 7(2): 1238. 1830. Basionym: *Pourretia inermis* E. Mey., in C. Presl, Reliq. haenk. 1(2): 123. 1827.

Dept.: Unknown.
Elevation: Unknown.
Type: *Haenke s.n.* HT: PR. Peru.
Voucher: *Pearce 521* (K). Cited for Bolivia in Fl. Neotrop. Monogr. 14(1): 326. 1974.

Pitcairnia lanuginosa Ruiz & Pav., Fl. peruv. 3: 35. 1802; Phytologia 15: 195. 1967.

Synonym(s): *Orthophytum lanuginosum* (Ruiz & Pav.) Beer, Fam. Bromel. 70. 1856; *Pitcairnia sessiliflora* Rusby, Bull. New York Bot. Gard. 4: 457. 1907.

Dept.: CO, LP, SC.
Elevation: 200–1300 m.
Type: *Ruiz & Pavon s.n.* HT: MA. Peru.
Voucher: *J. Solomon 14173* (LPB, SEL).

Pitcairnia longissimiflora Ibisch, Vásquez, & Gross, J. Bromeliad Soc. 49: 127. 1999.

Dept.: SC.
Elevation: 1000 m.
Type: *P. Ibisch & C. Ibisch 97.0097*. HT: LPB. Bolivia.
Voucher: *P. Ibisch & C. Ibisch 98.0225* (USZ).
Endemic.

Pitcairnia multiramosa Mez, in C. DC., Monogr. phan. 9: 419. 1896.

Synonym(s): *Hepetis multiramosa* (Mez) Mez in C. DC., Monogr. phan. 9: 974. 1896.

Dept.: CH.
Elevation: 1900 m.
Type: *Weddell 3637*. HT: P. Bolivia.
Voucher: *M. Cárdenas 5732* (US). Cited in Fl. Neotrop. Monogr. 14(1): 306. 1974.
Endemic.

Pitcairnia odontopoda Baker, Handb. Bromel. 93. 1889.

Synonym(s): *Hepetis odontopoda* (Baker) Mez in C. DC., Monogr. phan. 9: 974. 1896.

Dept.: LP.
Elevation: 1700–2500 m.
Type: *Pearce s.n.* HT: K. Bolivia.
Voucher: *Eyerdam 25357* (F UC). Cited in Fl. Neotrop. Monogr. 14(1): 319. 1974.

Pitcairnia paniculata (Ruiz & Pav.) Ruiz & Pav., Syst. veg. fl. peruv. chil. 3: 36. 1802. Basionym: *Pourretia paniculata* Ruiz & Pav., Syst. veg. fl. peruv. chil. 1: 81. 1798.

Synonym(s): *Pitcairnia biattenuata* Rusby, Bull. New York Bot. Gard. 4: 457. 1907.

Dept.: CH, CO?, LP, SC.
Elevation: (500)1750–2000(–2550) m.
Type: *Ruiz & Pavon s.n.* Herbarium of deposit unknown. Peru.
Voucher: *T. Krömer et al. 125* (LPB, SEL).

Pitcairnia platystemon Mez, in C. DC., Monogr. phan. 9: 421. 1896.

Synonym(s): *Hepetis platystemon* (Mez) Mez in C. DC., Monogr. phan. 9: 974. 1896.

Dept.: SC.
Elevation: ca. 500 m.
Type: *D'Orbigny 937*. HT: P. Bolivia.
Voucher: *P. Ibisch & Nowicki 990124* (USZ).
Endemic.

Pitcairnia riparia Mez, Repert. Spec. Nov. Regni Veg. 12: 416. 1913.

Dept.: LP.
Elevation: 1300 m.
Type: *Weberbauer 6156*. HT: B. Peru.

Voucher: *M. Kessler 9806* (GOET, LPB).

Pitcairnia trianae André, Énum. Bromél. 4: 13 Dec 1888; Rev. Hort. 60: 564. 16 Dec 1888.

Synonym(s): *Hepetis trianae* (André) Mez in C. DC., Monogr. phan. 9: 974. 1896.

Dept.: CO, LP.

Elevation: 1650–2900 m.

Type: *André 2069*. HT: K. Colombia.

Voucher: *T. Krömer 134* (LPB, SEL).

PSEUDANANAS

Pseudananas sagenarius (Arruda) Camargo, Revista Agric. (Piracicaba) 14(7, 8): reprint p. 4. 1939. Basionym: *Bromelia sagenaria* Arruda, Diss. pl. Brazil 13. 1810.

Dept.: BE, LP, SC.

Elevation: 200–850 m.

Type: *Original description*.

Voucher: *M. Kessler et al. 5386* (LPB, SEL).

PUYA

Puya alata L.B. Sm., Phytologia 7: 422. 1961.

Dept.: PO.

Elevation: 1000 m.

Type: *Cárdenas 2851*. HT: F. Bolivia.

Voucher: Only known from type collection.

Endemic.

Puya alba L.B. Sm., Phytologia 5: 49. 1954.

Dept.: TA.

Elevation: 800 m.

Type: *Cárdenas 4952a*. HT: US. Bolivia.

Voucher: Only known from type collection.

Endemic.

Puya atra L.B. Sm., Contr. U.S. Natl. Herb. 29: 536. 1954.

Dept.: CO, LP, SC.

Elevation: 2500–3500 m.

Type: *M.B. Foster 2551*. HT: US. Bolivia.

Voucher: *M. Kessler et al. 6610* (LPB, SEL).

Endemic.

Puya brittoniana Baker, Handb. Bromel. 124. 1889.

Dept.: LP.

Elevation: 3000–3800 m.

Type: *H. Rusby 2849*. HT: NY. Bolivia.

Voucher: *G. Varadarajan 1466* (LPB). Det. G. Varadarajan.

Endemic.

Puya cardenasii L.B. Sm., Lilloa 14: 94. 1948.

Dept.: CO.

Elevation: 3850–4000 m.

Type: *Cárdenas 4082*. HT: US; IT: GH. Bolivia.

Voucher: *G. Varadarajan 1442* (LPB). Det. G. Varadarajan.

Endemic.

Puya claudiae Ibsch, Vásquez & Gross, J. Bromeliad Soc. 49: 132. 1999.

Dept.: SC.

Elevation: 2000 m.

Type: *P. Ibsch & C. Ibsch 980040*. HT: LPB. Bolivia.

Voucher: Only known from type collection.

Endemic.

Puya cristata L.B. Sm., Lilloa 14: 95. 1948.

Dept.: CO.

Elevation: 3000 m.

Type: *Cárdenas 3311*. HT: GH. Bolivia.

Voucher: Only known from type collection.

Endemic.

Puya ctenorhyncha L.B. Sm., Phytologia 5: 49. 1954.

Dept.: LP.

Elevation: 2500–4050 m.

Type: *Cárdenas 4867*. HT: US. Bolivia.

Voucher: *L. Besse et al. 618* (SEL).

Endemic.

Puya dyckioides (Baker) Mez, in C. DC., Monogr. phan. 9: 486. 1896. Basionym: *Pitcairnia dyckioides* Baker, Handb. Bromel. 118. 1889.

Dept.: CH, SC, TA.

Elevation: 2250–2400(–3750?) m.

Type: *Weddell 3739*. HT: P. Bolivia.

Voucher: *P. Ibsch & C. Ibsch 93.1026* (SEL). "cf."

Puya entre-riosensis Ibsch & Gross, J. Bromeliad Soc. 48: 217. 1998.

Dept.: TA.

Elevation: 1800 m.

Type: *P. Ibsch & C. Ibsch 93.1282*. HT: LPB; IT: HEID. Bolivia.

Voucher: Only known from type collection.

Endemic.

Puya ferruginea (Ruiz & Pav.) L.B. Sm., Phytologia 16: 461. 1968. Basionym: *Pitcairnia ferruginea* Ruiz & Pav., Fl. peruv. 3: 36. 1802. Synonym(s): *Pitcairnia consimilis* Baker, J. Bot. 19: 226, 266. 1881.

Dept.: CO, LP, SC.

Elevation: 1150–3800 m.

Type: *Ruiz & Pavon s.n.* HT: BM. Peru.

Voucher: *J. Solomon 17336* (LPB, SEL).

Puya fiebrigii Mez, Repert. Spec. Nov. Regni Veg. 3: 9. 1906.

Dept.: TA?

Elevation: Unknown.

Type: *Fiebrig 3210*. LT: B. Bolivia.

Voucher: Only known from type collection.

Endemic.

Puya fosteriana L.B. Sm., J. Wash. Acad. Sci. 40: 216. 1950.

Dept.: LP.

Elevation: 3900–4400 m.

Type: *M.B. Foster 2573*. HT: US. Bolivia.

Voucher: *J. Solomon 18299* (MO, SEL).

Endemic.

Puya glabrescens L.B. Sm., Contr. U.S. Natl. Herb. 29: 537. 1954.

Dept.: CO, PO.

- Elevation: 2550–3700 m.
Type: *Cárdenas 4384*. HT: US. Bolivia.
Voucher: *L. Besse et al. 502* (SEL).
Endemic.
- Puya glareosa*** L.B. Sm., *Lilloa* 14: 96. 1948.
Dept.: LP.
Elevation: 3600 m.
Type: *Cárdenas 3583*. HT: GH. Bolivia.
Voucher: Only known from type collection.
Endemic.
- Puya herzogii*** Wittm., *Rijks-Herb.* 29: 86. 1916.
Dept.: CO, LP.
Elevation: 3300–3950 m.
Type: *Herzog 2269*. HT: L; IT: B. Bolivia.
Voucher: *M. Kessler et al. 6581* (SEL).
Endemic.
- Puya hofstenii*** Mez, *Repert. Spec. Nov. Regni Veg.* 3: 8. 1906.
Synonym(s): *Puya hauthalii* Mez, *Repert. Spec. Nov. Regni Veg.* 16: 65. 1919.
Dept.: CH, PO.
Elevation: 3000–3500 m.
Type: *Hofsten 1710*. HT: B. Argentina.
Voucher: *Hromadnik 19017a* (WU).
Puya hromadnikii Rauh, *Trop. Subtrop. Pflanzenwelt* 41: 5. 1983.
Dept.: TA.
Elevation: 2550–2700 m.
Type: *Hromadnik 5128*. HT: HEID. Bolivia.
Voucher: *W. Till 60a* (WU).
Endemic.
- Puya humilis*** Mez, in C. DC., *Monogr. phan.* 9: 498. 1896.
Synonym(s): *Puya werdermannii* Harms, *Notizbl. Bot. Gart. Berlin-Dahlem* 10: 793. 1929.
Dept.: CH, CO, PO.
Elevation: (2100–)2800–4200 m.
Type: *Kuntze s.n.* HT: NY. Bolivia.
Voucher: *G. Varadarajan et al. 1451* (LPB, SEL).
Det. G. Varadarajan.
Endemic.
- Puya kuntzeana*** Mez, in C. DC., *Monogr. phan.* 9: 490. 1896.
Dept.: CO.
Elevation: 1300 m.
Type: *Kuntze s.n.* HT: NY. Bolivia.
Voucher: Only known from type collection.
Endemic.
- Puya lasiopoda*** L.B. Sm., *Proc. Amer. Acad. Arts* 70: 153. 1935.
Dept.: BE, LP?.
Elevation: 500(–1850?) m.
Type: *H. Rusby 2232*. HT: NY. Bolivia.
Voucher: *J. Solomon 10862* (MO). “cf.”.
- Puya laxa*** L.B. Sm., *Phytologia* 6: 195. 1958.
Dept.: SC.
Elevation: 1500–1900 m.
Type: *Cárdenas 5092*. HT: US. Bolivia.
Voucher: *S. Beck 7100* (LPB). Det. G. Varadarajan.
Endemic.
- Puya leptostachya*** L.B. Sm., *Lilloa* 14: 97. 1948.
Dept.: CO.
Elevation: 3200–3400 m.
Type: *Cárdenas 3581*. HT: GH. Bolivia.
Voucher: *G. Varadarajan et al. 1445* (LPB). Det. G. Varadarajan.
Endemic.
- Puya meziana*** Wittm., *Rijks-Herb.* 29: 85. 1916.
Dept.: CO(?), LP.
Elevation: (2200?–)3000–3600 m.
Type: *Herzog 2487*. HT: L. Bolivia.
Voucher: *J. Solomon 13058* (LPB, SEL).
Endemic.
- Puya micrantha*** Mez, *Repert. Spec. Nov. Regni Veg.* 3: 8. 1906.
Dept.: TA/Argentina border.
Elevation: 1700 m.
Type: *Fiebrig 2244*. HT: B; IT: BM, GH. Argentina.
Voucher: No known collections from Bolivia.
- Puya minima*** L.B. Sm., *Phytologia* 7: 423. 1961.
Synonym(s): *Puya pusilla* H. Luther, *Broméia* 4(4): 30 Nov. 1997 [1998].
Dept.: TA.
Elevation: 2500–2650 m.
Type: *West 8345*. HT: UC. Bolivia.
Voucher: *S. Beck & M. Libermann 14310* (LPB, SEL).
Endemic.
- Puya mirabilis*** (Mez) L.B. Sm., *Phytologia* 16: 461. 1968. Basionym: *Pitcairnia mirabilis* Mez, *Repert. Spec. Nov. Regni Veg.* 3: 6. 1906.
Dept.: CO, TA.
Elevation: 1400–2600 m.
Type: *Fiebrig 2320*. HT: B. Bolivia.
Voucher: *P. Ibsch & Rojas 415* (LPB). Det. G. Varadarajan.
- Puya mollis*** Baker ex Mez, in C. DC., *Monogr. phan.* 9: 488. 1896.
Dept.: LP.
Elevation: 2400–3300 m.
Type: *Bang 1629*. LT: K; ILT: BM, GH, US. Bolivia.
Voucher: (Syntype) *G. Mandon 1190* (BR, GH, MANCH, P, PL, STU, WU, Z). Cited in *Fl. Neotrop. Monogr.* 14(1): 123. 1974.
Endemic.
- Puya nana*** Wittm., *Rijks-Herb.* 29: 85. 1916.
Synonym(s): *Pitcairnia nana* (Wittm.) L.B. Sm., *Phytologia* 7: 5. 1959; 10: 30. 1964.
Dept.: SC.
Elevation: (1350–)1700–2100 m.
Type: *Herzog 1856a*. HT: L. Bolivia.
Voucher: *M. Kessler et al. 6356* (LPB, SEL).
Endemic.
- Puya olivacea*** Wittm., *Rijks-Herb.* 29: 83. 1916; emend. L.B. Sm., *Contr. U.S. Nat. Herb.* 29: 538. 1954.
Synonym(s): *Pitcairnia olivacea* (Wittm.) Mez in Engler, *Pflanzenr.* IV, 32: 247. 1935.
Dept.: SC.
Elevation: 950–2000 m.
Type: *Herzog 1216*. HT: L. Bolivia.
Voucher: *J. Solomon & M. Nee 17936* (MO, SEL).
Endemic.

- Puya paupera** Mez, Repert. Spec. Nov. Regni Veg. 3: 14. 1906.
Dept.: TA.
Elevation: 2600 m.
Type: *Fiebrig 2005*. HT: B. Bolivia.
Voucher: Only known from type collection.
Endemic.
- Puya pearcei** (Baker) Mez, in C. DC., Monogr. phan. 9: 480. 1896. Basionym: *Pitcairnia pearcei* Baker, Handb. Bromel. 120. 1889.
Dept.: CO, LP, SC?
Elevation: 750–2800 m.
Type: *Pearce s.n.* HT: K. Bolivia.
Voucher: *A. Gentry et al. 44254* (LPB, SEL).
Endemic.
- Puya penduliflora** L.B. Sm., Contr. Gray Herb. 98: 12. 1932.
Dept.: LP
Elevation: 1400 m.
Type: *Buchtien 7182*. HT: US. Bolivia.
Voucher: Only known from type collection.
Endemic.
- Puya potosina** L.B. Sm., Phytologia 7: 423. 1961.
Dept.: CH, PO.
Elevation: (2050–)3400 m.
Type: *Cárdenas 3738*. HT: US. Bolivia.
Voucher: *M. Kessler et al. 4804* (LPB).
Endemic.
- Puya prosanae** Ibisch & E. Gross, J. Bromeliad Soc. 43: 212. 1993.
Dept.: CO.
Elevation: 3500–3800 m.
Type: *P. Ibisch & C. Ibisch 625A*. HT: HEID; IT: LPB. Bolivia.
Voucher: Only known from type collection.
Endemic.
- Puya raimondii** Harms, Notizbl. Bot. Gart. Berlin-Dahlem 10: 213. 1928.
Dept.: CO, LP.
Elevation: (2400–)3000–4200 m.
Type: *Weberbauer 2955*. HT: B. Peru.
Voucher: *G. & D. Schmitt* (LPB, SEL).
Endemic.
- Puya reducta** L.B. Sm., Phytologia 10: 472. 1964.
Dept.: LP.
Elevation: 2600 m.
Type: *Cárdenas 5687*. HT: US. Bolivia.
Voucher: Only known from type collection.
Endemic.
- Puya riparia** L.B. Sm., Phytologia 7: 424. 1961.
Dept.: LP.
Elevation: 1350(–3950) m.
Type: *M.B. Foster 2578*. HT: US. Bolivia.
Voucher: *S. Beck 11277* (LPB). Det. A. Gilmartin.
Endemic.
- Puya rusbyi** (Baker) Mez, in C. DC., Monogr. phan. 9: 482. 1896. Basionym: *Pitcairnia rusbyi* Baker, Handb. Bromel. 122. 1889.
Dept.: LP.
Elevation: 3000–3600 m.
Type: *H. Rusby 2846*. HT: NY. Bolivia.
Voucher: *West 6402* (UC). Cited in Fl. Neotrop. Monogr. 14(1): 89. 1974.
Endemic.
- Puya sanctae-crucis** (Baker) L.B. Sm., Proc. Amer. Acad. Arts 70: 154. 1935. Basionym: *Pitcairnia sanctae-crucis* Baker, Handb. Bromel. 120. 1889.
Synonym(s): *Pitcairnia robusta* Rusby, Bull. New York Bot. Gard. 6: 488. 1910.
Dept.: LP, SC.
Elevation: 1300–2450 m.
Type: *Castelnau s.n.* HT: P. Bolivia.
Voucher: *L. Besse et al. 636* (SEL).
Endemic.
- Puya secunda** L.B. Sm., Phytologia 7: 424. 1961.
Dept.: CO.
Elevation: 1800–3000 m.
Type: *Cárdenas 4381*. HT: US. Bolivia.
Voucher: *P. Ibisch 14074* (LPB).
Endemic.
- Puya serranoensis** Rauh, Trop. Subtrop. Pflanzenwelt 41: 14. 1983.
Dept.: SC.
Elevation: 1700–2600 m.
Type: *Hromadnik 5230*. HT: HEID. Bolivia.
Voucher: *I. Vargas & Fuentes 3046* (SEL).
Endemic.
- Puya solomonii** Varad., J. Bromeliad Soc. 39: 121. 1989.
Dept.: LP.
Elevation: 3050 m.
Type: *G. Varadarajan, U. Varadarajan & J. Solomon 1471*. HT: GH; IT: LPB, MO, US, WS. Bolivia.
Voucher: Only known from type collection.
Endemic.
- Puya spathacea** (Griseb.) Mez, in C. DC., Monogr. phan. 9: 481. 1896. Basionym: *Pitcairnia spathacea* Griseb., Abh. Königl. Ges. Wiss. Göttingen 24: 329. 1879.
Dept.: TA.
Elevation: 2050 m.
Type: *Hieronymus 175*. HT: GOET; IT: CORD. Argentina.
Voucher: *E. Bastian 414* (LPB).
Endemic.
- Puya stenothyrsa** (Baker) Mez, in C. DC., Monogr. phan. 9: 481. 1896. Basionym: *Pitcairnia stenothyrsa* Baker, Handb. Bromel. 122. 1889.
Synonym(s): *Pitcairnia bangii* Baker, Mem. Torrey Bot. Club 6: 124. 1896.
Dept.: CO, LP, SC, TA.
Elevation: (1350–)2700–3800 m.
Type: *Mandon 1189*. HT: K; IT: GH, PI, US. Bolivia.
Voucher: *L. Hromadnik 19026* (WU).
Endemic.
- Puya tristis** L.B. Sm., Phytologia 10: 475. 1964.
Dept.: CO.
Elevation: 3900 m.
Type: *Cárdenas 6067*. HT: US. Bolivia.
Voucher: Only known from type collection.
Endemic.
- Puya trollii** L.B. Sm., Phytologia 16: 459. 1968.

- Dept.: PO.
Elevation: 3350 m.
Type: *Troll 661*. HT: M. Bolivia.
Voucher: *S. Beck et al. 26787* (LPB).
Endemic.
- Puya tuberosa** Mez, in C. DC., Monogr. phan. 9: 483. 1896; emend. L.B. Sm., Contr. U.S. Natl. Herb. 29: 539. 1954.
Dept.: SC, TA.
Elevation: 1000–2750 m.
Type: *Haecke s.n.* HT: M. Bolivia.
Voucher: *Cárdenas 4647* (US). Cited in Fl. Neotrop. Monogr. 14(1): 120. 1974.
Endemic.
- Puya tunariensis** Mez, in C. DC., Monogr. phan. 9: 498. 1896.
Dept.: CO.
Elevation: (2000–)3150–3800 m.
Type: *Kuntze s.n.* HT: NY. Bolivia.
Voucher: *M. Kessler et al. 6830* (LPB, SEL).
Endemic.
- Puya ugentiana** L.B. Sm., Phytologia 13: 147. 1966.
Dept.: CH.
Elevation: 1900–1950 m.
Type: *Ugent 4998*. HT: US; IT: WIS. Bolivia.
Voucher: *L. Hromadnik 19066* (WU).
Endemic.
- Puya ultima** L.B. Sm., Contr. U.S. Natl. Herb. 29: 540. 1954.
Dept.: LP.
Elevation: 1500–2200 m.
Type: *M.B. Foster 2575*. HT: US. Bolivia.
Voucher: *M. Kessler et al. 10574* (SEL).
Endemic.
- Puya valida** L.B. Sm., Phytologia 10: 474. 1964.
Dept.: CH.
Elevation: 2500 m.
Type: *Cárdenas 6012*. HT: US. Bolivia.
Voucher: Only known from type collection.
Endemic.
- Puya vallo-grandensis** Rauh, Trop. Subtrop. Pflanzenwelt 41: 9. 1983.
Dept.: SC.
Elevation: 2000–2250 m.
Type: *Hromadnik 5279*. HT: HEID. Bolivia.
Voucher: *P. Ibisch & C. Ibisch 93.0861* (SEL).
Endemic.
- Puya vasquezii** P. Ibisch & E. Gross, Rev. Soc. Boliviana Bot. 2(1): 26. 1998.
Dept.: SC.
Elevation: 600 m.
Type: *R. Vásquez et al. 2025*. HT: LPB; IT: NY, USZ. Bolivia.
Voucher: Only known from type collection.
Endemic.
- Puya weberbaueri** Mez, Bull. Herb. Boissier, sér. 2, 4: 633. 1904.
Dept.: LP.
Elevation: Unknown.
Type: *Weberbauer 847*. HT: B. Peru.
- Voucher: *Cárdenas 5534* (US). Cited for Bolivia in Fl. Neotrop. Monogr. 14(1): 148. 1974.
- Puya weddelliana** (Baker) Mez, in C. DC., Monogr. phan. 9: 475. 1896. Basionym: *Pitcairnia weddelliana* Baker, Handb. Bromel. 12. 1889.
Dept.: CH, TA.
Elevation: 1800–3000 m.
Type: *Weddell 4001*. HT: P. Bolivia.
Voucher: *L. Hromadnik 19046a* (WU).
Endemic.
- Puya sp. 1.**
Dept.: LP.
Elevation: 1450 m.
Voucher: *M. Kessler et al. 10386* (LPB, SEL).

RACINAEA

- Racinaea cf. riocreuxii** (André) M.A. Spencer & L.B. Sm., Phytologia 74: 156. 1993. Basionym: *Tillandsia riocreuxii* André, Énum. Bromél. 7. 13 Dec. 1888; Rev. Hort. 60: 567. 16 Dec. 1888.
Dept.: LP.
Elevation: 3250 m.
Type: *André 4408*. HT: K. Ecuador.
Voucher: *B. Herzog 368* (LPB).
- Racinaea flexuosa** (Baker) M.A. Spencer & L.B. Sm., Phytologia 74: 154. 1993. Basionym: *Catopsis flexuosa* Baker, J. Bot. 25: 175. 1887.
Synonym(s): *Tillandsia bakeri* L.B. Sm., Contr. Gray Herb. 95: 45. 1931.
Dept.: CO, LP.
Elevation: 2100–2700 m.
Type: *Mandon 1172*. HT: K. Bolivia.
Voucher: *M. Kessler et al. 12495* (LPB, SEL).
- Racinaea kessleri** H. Luther, Selbyana 19: 86. 1998.
Dept.: CO.
Elevation: 2200–3100 m.
Type: *M. Kessler et al. 8380*. HT: SEL; IT: LPB. Bolivia.
Voucher: *M. Kessler et al. 9541* (LPB, SEL).
Endemic.
- Racinaea monticola** (Mez & Sodiro) M.A. Spencer & L.B. Sm., Phytologia 74: 155. 1993. Basionym: *Tillandsia monticola* Mez & Sodiro, Bull. Herb. Boissier, sér. 2, 4: 1135. 1904.
Dept.: LP.
Elevation: 750–850 m.
Type: *Sodiro 171/33*. HT: B; IT: F, GH. Ecuador.
Voucher: *O. Buchtien 1266* (US). Cited for Bolivia in Fl. Neotrop. Monogr. 14(2): 1038. 1977.
- Racinaea nervibractea** (Gilmartin & H. Luther) J.R. Grant, Phytologia 74: 429. 1993. Basionym: *Tillandsia nervibractea* Gilmartin & H. Luther, J. Bromeliad Soc. 40(6): 250. 1990.
Dept.: CO, SC.
Elevation: 2100–2150 m.
Type: *Kalmbacher s.n.* HT: US. Ecuador.
Voucher: *P. Ibisch 93.1537* (LPB, SEL).
- Racinaea pardina** (L.B. Sm.) M.A. Spencer & L.B.

Sm., *Phytologia* 74: 155. 1993. Basionym: *Tillandsia pardina* L.B. Sm., *Lilloa* 14: 98. 1948.
 Dept.: LP, SC.
 Elevation: 1300–1700 m.
 Type: *Buchtien 7183*. HT: US. Bolivia.
 Voucher: *M. Kessler et al. 9871* (LPB, SEL).

Endemic.

Racinaea parviflora (Ruiz & Pav.) M.A. Spencer & L.B. Sm., *Phytologia* 74: 156. 1993. Basionym: *Tillandsia parviflora* Ruiz & Pav., *Fl. peruv.* 3: 41. 1802.
 Dept.: CO, LP, SC.
 Elevation: (500–)950–2500 m.
 Type: *Ruiz & Pavon s.n.* HT: BM. Peru.
 Voucher: *M. Kessler 11655* (LPB, SEL).

Racinaea pendulispica (Mez) M.A. Spencer & L.B. Sm., *Phytologia* 74: 156. 1993. Basionym: *Tillandsia pendulispica* Mez, in C. DC., *Monogr. phan.* 9: 745. 1896.
 Synonym(s): *Tillandsia triangularis* Rusby, *Descr. S. Amer. pl.* 3. 1920.
 Dept.: CO.
 Elevation: Unknown (> 2500 m?).
 Type: *Poeppig 1348*. HT: G; IT: W (lost). Peru.
 Voucher: *M. Bang s.n.* (NY). Cited for Bolivia in *Fl. Neotrop. Monogr.*, 14(2): 1040. 1977.

Racinaea schumanniana (Wittm.) J.R. Grant, *Novon* 4: 363. 1994. Basionym: *Catopsis schumanniana* Wittm., *Bot. Jahrb. Syst.* 11: 70. 1890.
 Dept.: CO, LP.
 Elevation: 1050–2700 m.
 Type: *Lehmann 22*. HT: G. Colombia.
 Voucher: *J. Solomon 9189* (SEL).

Racinaea seemannii (Baker) M.A. Spencer & L.B. Sm., *Phytologia* 74: 157. 1993. Basionym: *Guzmania seemannii* Baker, *Handb. Bromel.* 153. 1889.
 Dept.: CO, LP.
 Elevation: 2100–3500 m.
 Type: *Seemann 898*. HT: K. Ecuador.
 Voucher: *M. Kessler et al. 6648* (LPB, SEL).

Racinaea spiculosa (Griseb.) M.A. Spencer & L.B. Sm., *Phytologia* 74: 157. 1993. Basionym: *Tillandsia spiculosa* Griseb., *Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ.* [1]: 17. 1864.
 Synonym(s): *Tillandsia brittoniana* Baker, *Handb. Bromel.* 195. 1889; *Tillandsia micrantha* Baker, *Bull. Torrey Bot. Club* 29: 698. 1902.
 Dept.: BE, CO, SC, LP.
 Elevation: 300–2500 m.
 Type: *A. Fendler 1518*. HT: GOET. Venezuela.
 Voucher: *M. Kessler et al. 7741* (LPB, SEL).

Racinaea tetrantha (Ruiz & Pav.) M.A. Spencer & L.B. Sm., *Phytologia* 74: 158. 1993. Basionym: *Tillandsia tetrantha* Ruiz & Pav., *Fl. peruv.* 3: 39, pl. 265. 1802.
 Dept.: CO, LP.
 Elevation: 2400–2750 m.
 Type: *Ruiz & Pavon s.n.* HT: MA. Peru.
 Voucher: *M. Kessler et al. 10421* (SEL).

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Tillandsia acuminata L.B. Sm., *Contr. U.S. Natl. Herb.* 29: 434. 1951.

Dept.: CO, LP.
 Elevation: 2000–2750 m.
 Type: *M.B. Foster & L.B. Smith 1402*. HT: GH. Colombia.
 Voucher: *M. Kessler et al. 5565* (LPB, SEL).

Tillandsia adpressiflora Mez, in C. DC., *Monogr. phan.* 9: 661. 1896.
 Dept.: SC.
 Elevation: 200–250 m.
 Type: *Wulfschlaegel 1335*. HT: BM. Suriname.
 Voucher: *S. Halloy et al. 4406* (SEL).

Tillandsia aizoides Mez, in C. DC., *Monogr. phan.* 9: 866. 1896.
 Dept.: PO, TA.
 Elevation: 2100–2800 m.
 Type: *Hieronimus & Niederlein 850*. HT: B; IT: CORD. Argentina.
 Voucher: *H. Hromadnik & L. Hromadnik 5086* (WU).

Tillandsia argentina C.H. Wright, *Bull. Misc. Inform. Kew* 60. 1907.
 Dept.: CH, TA.
 Elevation: 800–1950 m.
 Type: *Stuckert s.n.* HT: K. Argentina.
 Voucher: *S. Beck & M. Libermann 14275* (LPB, SEL).

Tillandsia asplundii L.B. Sm., *Phytologia* 6: 441. 1959.
 Dept.: CO, LP.
 Elevation: 1350–2500 m.
 Type: *Asplund 19279*. HT: S; IT: US. Ecuador.
 Voucher: *M. Kessler et al. 6975* (LPB, SEL).

Tillandsia australis Mez, *Repert. Spec. Nov. Regni Veg.* 16: 75. 1919.
 Synonym(s): *Tillandsia maxima* Lillo & Hauman, *Anales Mus. Nac. Hist. Nat. Buenos Aires* 29: 245, 416. 1917, non *Strangeways*, 1882.
 Dept.: CH, LP, SC, TA.
 Elevation: 800–2100(–3100) m.
 Type: *Lorentz & Hieronymus 287*. HT: LIL; IT: B, CORD, US. Argentina.
 Voucher: *M. Kessler et al. 4946* (LPB, SEL).

Tillandsia bandensis Baker, *J. Bot.* 25: 234. 1887.
 Synonym(s): *Tillandsia pilosa* L.B. Sm., *Phytologia* 7: 175. 1960.
 Dept.: CH, CO, SC, TA.
 Elevation: (600–)1200–2200 m.
 Type: *Tweedie s.n.* HT: K. Uruguay.
 Voucher: *M. Kessler et al. 5914* (LPB, SEL).

Tillandsia bermejoensis H. Hromadnik, *Trop. Subtrop. Pflanzenwelt* 31: 9. 1979.
 Dept.: SC.
 Elevation: 850–1450 m.
 Type: *Hromadnik 3054*. HT: HEID. Bolivia.
 Voucher: *D. Cathcart 16* (SEL).

Endemic.

Tillandsia biflora Ruiz & Pav., *Fl. peruv.* 3: 41. 1802.

- Dept.: CO, LP.
Elevation: 2100–2800 m.
Type: *Ruiz & Pavon s.n.* HT: MA, Peru.
Voucher: *M. Kessler et al. 9556* (LPB, SEL).
- Tillandsia boliviana** Mez, Bull. Herb. Boissier, sér. 2, 4: 1130. 1904.
Dept.: CH?, LP?.
Elevation: 1500?–2730? m.
Type: *Bang 2202*. HT: B; IT: BM, F, G, GH, K, LE, M, MICH, MO, O, US, WU. Bolivia.
Voucher: *M. Kessler et al. 4535* (LPB, SEL). "cf.".
Endemic.
- Tillandsia boliviensis** Baker, Mem. Torrey Bot. Club 4(3): 267. 1895; emend. Contr. Gray Herb. 98: 15. 1932.
Dept.: LP.
Elevation: 2800–3600 m.
Type: *Bang 159 A*. HT: NY. Bolivia.
Voucher: *Buchtien 808* (US). Cited in Fl. Neotrop. Monogr. 14(2): 769. 1977.
Endemic.
- Tillandsia cf. buseri** Mez, Bull. Herb. Boissier, sér. 2, 3: 145. 1903.
Dept.: LP.
Elevation: 2750 m.
Type: *Langlassé 102-A*. HT: G; IT: K. Colombia.
Voucher: *M. Kessler et al. 12044* (LPB, SEL).
- Tillandsia caliginosa** W. Till, Pl. Syst. Evol. 147: 282. 1984. Basionym: *Tillandsia crocata* (E. Morren) Baker var. *tristis* Rauh, Trop. Subtrop. Pflanzenwelt 43: 17. 1983, non *T. tristis* Mez 1896.
Dept.: CH, CO, PO, TA.
Elevation: 1900–3000 m.
Type: *D. Muhr s.n.* HT: HEID. Argentina.
Voucher: *P. Ibisch & C. Ibisch 93.0329* (LPB, SEL).
- Tillandsia calochlamys** Ehlers & L. Hrom., Die Bromelie 2/1998: 38. 1998.
Dept.: CO.
Elevation: 2800–3550 m.
Type: *R. Ehlers EB952403*. HT: LPB. Bolivia.
Voucher: *W. Till 158* (WU).
Endemic.
- Tillandsia camargoensis** L. Hrom., Die Bromelie 1/1991: 9. 1991.
Dept.: CH, PO.
Elevation: 2300–3000 m.
Type: *Hromadnik 5073 A*. HT: WU. Bolivia.
Voucher: *E. Haugg 7023* (WU). in part.
Endemic.
- Tillandsia capillaris** Ruiz & Pav., Fl. peruv. 3: 42. 1802.
Dept.: CH, CO, LP, OR, PO, SC, TA.
Elevation: 900–4000 m.
Type: *Ruiz & Pavon s.n.* LT: BM; ILT: BM, MA. Peru.
Voucher: *M. Kessler et al. 6502* (LPB, SEL).
- Tillandsia cardenasii** L.B. Sm., Proc. Amer. Acad. Arts 70: 154. 1935.
Dept.: CH, CO, PO, TA.
Elevation: 1700–3400 m.
- Type: *Cárdenas 491*. HT: GH. Bolivia.
Voucher: *M. Kessler et al. 4832* (LPB, SEL).
Endemic.
- Tillandsia carnosa** L.B. Sm., Phytologia 9: 251. 1963.
Dept.: CO, LP.
Elevation: 900–3000 m.
Type: *J. Wurdack 603*. HT: US; IT: USM. Peru.
Voucher: *M. Kessler et al. 5752* (LPB, SEL).
- Tillandsia caulescens** Brongn. ex Baker, Handb. Bromel. 168. 1889.
Dept.: LP.
Elevation: 850–1550 m.
Type: *Gay 1186*. HT: P. Peru.
Voucher: *M. Kessler et al. 5808* (LPB, SEL).
- Tillandsia cochabambae** E. Gross & Rauh, Die Bromelie 2/86: 14. 1986.
Dept.: CO.
Elevation: 2400–2700 m.
Type: *W. Rauh 40609*. HT: HEID. Bolivia.
Voucher: *M. Kessler et al.* (LPB, SEL).
Endemic.
- Tillandsia colganii** Ehlers, J. Bromeliad Soc. 47: 103. 1997.
Dept.: SC.
Elevation: 2700–3200 m.
Type: *R. Ehlers EB 951002*. HT: WU. Bolivia.
Voucher: *R. Ehlers 951101* (WU). Det. R. Ehlers.
Endemic.
- Tillandsia comarapaensis** H. Luther, J. Bromeliad Soc. 34: 54. 1984.
Dept.: CH, CO, SC.
Elevation: (400–)1550–2600 m.
Type: *L. Besse et al. 1713*. HT: SEL. Bolivia.
Voucher: *M. Kessler et al. 4605* (LPB, SEL).
Endemic.
- Tillandsia compacta** Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. [1]: 18. 1864.
Dept.: CO.
Elevation: 2000 m.
Type: *A. Fendler 1508*. HT: GOET; IT: K. Venezuela.
Voucher: *L. Dorr 7052* (LPB, SEL).
- Tillandsia complanata** Benth., Bot. voy. Sulphur 173. 1846.
Dept.: CO, LP, SC.
Elevation: (300–)1050–2900 m.
Type: *Sinclair s.n.* HT: K. Ecuador.
Voucher: *M. Kessler et al. 7010* (LPB, SEL).
- Tillandsia confinis** L.B. Sm., Phytologia 4: 218. 1953.
Synonym(s): *Tillandsia subtropicalis* L.B. Sm., Phytologia 8: 505. 1963.
Dept.: CO, LP, SC.
Elevation: 1300–1600 m.
Type: *Ferreyra 1686*. HT: USM. Peru.
Voucher: *J. Solomon 9253* (LPB, MO, SEL).
- Tillandsia cotagaitensis** L. Hrom., Pl. Syst. Evol. 147: 284. 1984.
Dept.: PO.
Elevation: 3000 m.

- Type: *Hromadnik 5093*. HT: WU; IT: LI, NY, WU. Bolivia.
 Voucher: *W. Till 42* (WU).
Endemic.
- Tillandsia denudata** André, Énum. Bromél. 8. 13 Dec. 1888; Rev. Hort. 60: 568. 16 Dec. 1888.
 Dept.: LP.
 Elevation: 1250 m.
 Type: *André 1358*. HT: HEID. Colombia.
 Voucher: *M. Kessler et al. 5587* (LPB, SEL).
- Tillandsia didisticha** (E. Morren) Baker, J. Bot. 26: 16. 1888. Basionym: *Anoplophytum didistichum* E. Morren, Belgique Hort. 31: 164. 1881.
 Synonym(s): *Guzmania complanata* Wittm., Meded. Rijks-Herb. 29: 92. 1916.
 Dept.: BE, CH, CO, LP, SC, TA.
 Elevation: 200–2450 m.
 Type: *Jacob Matoy Hortus s.n.* HT: LG. Brazil.
 Voucher: *M. Kessler et al. 5584* (LPB, SEL).
- Tillandsia duratii** Visiani, Nuovi. Saggi r. Accad. Sci. Padova 5: 271. 1840.
 Synonym(s): *Tillandsia weddellii* Baker, Handb. Bromel. 181. 1889.
 Dept.: CH, CO, LP, PO, SC, TA.
 Elevation: 400–2250 m.
 Type: *Padua Hortus s.n.* HT: PAD.
 Voucher: *M. Kessler et al. 5912* (LPB, SEL).
- Tillandsia edithae** Rauh, Trop. Subtrop. Pflanzenwelt 8: 19. 1974.
 Dept.: CH, LP, SC.
 Elevation: 750–2700 m.
 Type: *Krahn K 295*. HT: HEID; IT: US, HAL. Bolivia.
 Voucher: *M. Kessler et al. 12314* (LPB, SEL).
Endemic.
- Tillandsia engleriana** Wittm., Bot. Jahrb. Syst. 11: 63. 1890.
 Dept.: CO, LP, SC.
 Elevation: 1700–2500 m.
 Type: *Lehmann 520*. HT: G-B. Colombia.
 Voucher: *D. Smith 13442* (LPB, MO).
- Tillandsia erici** Ehlers, Die Bromelie 1/1998: 20. 1998.
 Dept.: TA.
 Elevation: 1800–2200 m.
 Type: *E. Haugg & E. Heger 11247*. HT: WU; IT: LPB. Bolivia.
 Voucher: Only known from type collection.
Endemic.
- Tillandsia fendleri** Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. [1]: 17. 1864.
 Dept.: BE, CO, LP, SC.
 Elevation: 700–2200(–3000) m.
 Type: *A. Fendler 1515*. HT: GOET. Venezuela.
 Voucher: *M. Kessler et al. 9868* (LPB, SEL).
- Tillandsia funebris** A. Cast., Anales Mus. Nac. Hist. Nat. Buenos Aires 37: 502. 1933.
 Dept.: CH, CO, PO, SC, TA.
 Elevation: 400–2100 m.
 Type: *Schreiter 1689*. HT: BA; IT: B, GH, LIL. Argentina.
 Voucher: *M. Kessler et al. 4710* (LPB, SEL, WU).
- Tillandsia gerdae** Ehlers, Die Bromelie 2/87: 32. 1987.
 Dept.: CH, CO.
 Elevation: (1700–)2000–2600 m.
 Type: *E. Haugg 7163*. HT: WU; IT: WU. Bolivia.
 Voucher: *E. Haugg 8283* (WU).
Endemic.
- Tillandsia gilliesii** Baker, J. Bot. 16: 240. 1878.
 Dept.: CH, CO, PO, TA.
 Elevation: 1800–3200 m.
 Type: *Gillies s.n.* HT: K; IT: CGE, GH. Argentina.
 Voucher: *M. Cárdenas 2418* (GH). Cited for Bolivia in Fl. Neotrop. Monogr. 14(2): 885. 1977.
- Tillandsia hasei** Ehlers & L. Hrom., Die Bromelie 3/1996: 176. July 1997.
 Dept.: CH.
 Elevation: 3100 m.
 Type: *F. Hase et al. EB 951501*. HT: WU. Bolivia.
 Voucher: *L. Hromadnik 19046* (WU).
Endemic.
- Tillandsia hegeri** Ehlers, Die Bromelie 2/1994: 33. 1994.
 Dept.: CH, TA.
 Elevation: 270–2750 m.
 Type: *E. Heger s.n.* HT: WU. Bolivia.
 Voucher: *L. Hromadnik 19028* (WU).
Endemic.
- Tillandsia helmutii** L. Hrom., Die Bromelie 3/1990: 63. Jan. 1990 [1991].
 Dept.: CH.
 Elevation: 1700–1800 m.
 Type: *L. & H. Hromadnik 13009*. HT: WU; IT: WU. Bolivia.
 Voucher: *L. & H. Hromadnik 5028* (WU).
Endemic.
- Tillandsia hirta** W. Till & L. Hrom., Pl. Syst. Evol. 147: 285. 1984.
 Dept.: CH, CO, PO, TA.
 Elevation: 2500–3700 m.
 Type: *L. & R. Hromadnik HR 5001*. HT: WU; IT: WU. Bolivia.
 Voucher: *L. Hromadnik 19092* (WU).
- Tillandsia imporaensis** R. Ehlers, Die Bromelie 3/1998: 76. 1998.
 Dept.: CH, CO.
 Elevation: 3050 m.
 Type: *E. Haugg 7078*. HT: WU. Bolivia.
 Voucher: *G. Köhres & L. Köhres s.n.* (WU).
Endemic.
- Tillandsia ionochroma** André ex Mez, in C. DC., Monogr. phan. 9: 801. 1896.
 Dept.: CO, LP, SC.
 Elevation: 2000–3600 m.
 Type: *André 2746*. HT: K; IT: NY. Ecuador.
 Voucher: *S. Beck 14469* (LPB, SEL).
- Tillandsia ixioides** Griseb., Abh. Königl. Ges. Wiss. Göttingen 24: 333. 1879.
 Dept.: CH, TA.
 Elevation: 1700–2200 m.

- Type: *Lorentz 1196*. HT: B; IT: BM, G-B, GOET, K, M, US. Argentina.
 Voucher: *M. Cárdenas 4093* (GH, US). Cited for Bolivia in *Fl. Neotrop. Monogr.* 14(2): 821. 1977.
- Tillandsia jucunda*** A. Cast., *Anales Mus. Nac. Hist. Nat. Buenos Aires* 36: 56. 1929.
 Dept.: CH.
 Elevation: 2300–2700 m.
 Type: *Schreiter 26/2367*. HT: BA. Argentina.
 Voucher: *W. Till 20* (WU).
- Tillandsia juncea*** (Ruiz & Pav.) Poir., *Encycl. suppl.* 5: 309. 1817. Basionym: *Bonapartea juncea* Ruiz & Pav., *Fl. peruv.* 3: 38. 1802.
 Dept.: BE, CO, LP, PA, SC.
 Elevation: 800–1400(–2000) m.
 Type: *Ruiz & Pavon s.n.* HT: MA. Peru.
 Voucher: *M. Kessler et al. 5595* (LPB, SEL).
- Tillandsia kessleri*** H. Luther, *Selbyana* 20: 10. 1999.
 Dept.: CO.
 Elevation: 2600–2900 m.
 Type: *M. Kessler et al. 9557*. HT: SEL; IT: LPB. Bolivia.
 Voucher: *M. Kessler et al. 9557* (LPB, SEL).
Endemic.
- Tillandsia koehresiana*** Ehlers, *Die Bromelie* 3/1990: 59. 1990 [Jan. 1991].
 Dept.: CO, PO.
 Elevation: 2000–2750 m.
 Type: *Köhres s.n.* HT: WU; IT: WU. Bolivia.
 Voucher: *P. Ibsch 216* (LPB, SEL).
Endemic.
- Tillandsia krukoffiana*** L.B. Sm., *Contr. Gray Herb.* 154: 36. 1945.
 Dept.: BE, CO, LP, SC?.
 Elevation: 850–2200(–2700) m.
 Type: *B. Krukoff 10503*. HT: GH; IT: K, MICH, NY, S. Bolivia.
 Voucher: *M. Kessler et al. 4495* (LPB, SEL).
Endemic.
- Tillandsia kuehhasii*** W. Till, *Die Bromelie* 2/1995: 33. 1995.
 Dept.: CH, PO?.
 Elevation: 3600 m.
 Type: *E. Kirschnek & F. Kuehhas s.n.* HT: WU; IT: WU. Bolivia.
 Voucher: *R. Ehlers 950601* (WU).
Endemic.
- Tillandsia kuntzeana*** Mez, in C. DC., *Monogr. phan.* 9: 790. 1896.
 Dept.: CO, LP?.
 Elevation: 1300–2100(–3050) m.
 Type: *Kuntze s.n.* HT: NY. Bolivia.
 Voucher: *M. Kessler et al. 6675* (LPB, SEL).
Endemic.
- Tillandsia laxissima*** Mez, *Bull. Herb. Boissier, sér.* 2, 5: 108. 1905.
 Dept.: SC, LP.
 Elevation: 1250–1300 m.
 Type: *Bang 2301* (in part). HT: B; IT: G, GH, LE, M, MO, NY, PH, US, W, WU. Bolivia.
- Voucher: *M. Kessler 4064* (LPB).
Endemic.
- Tillandsia loliacea*** Mart. ex Schult. & Schult.f., in Roem. & Schult., *Syst. veg.* 7(2): 1204. 1830.
 Dept.: CH, CO, LP, SC, TA.
 Elevation: 200–1400(–2200) m.
 Type: *C. Martius s.n.* HT: M. Brazil.
 Voucher: *M. Kessler et al. 5197* (LPB, SEL).
- Tillandsia longifolia*** Baker, *Handb. Bromel.* 185. 1889.
 Dept.: CO, SC?.
 Elevation: 2000–2100(–2600) m.
 Type: *A. Fendler 1522*. HT: K; IT: GH. Venezuela.
 Voucher: *P. Ibsch & C. Ibsch 93.1628* (SEL).
- Tillandsia lorentziana*** Griseb., *Abh. Königl. Ges. Wiss. Göttingen* 19: 271. 1874.
 Synonym(s): *Tillandsia lorentziana* f. *simplex* O. Kuntze, *Revis. gen. pl.* 3(2): 304. 1898.
 Dept.: CH, CO, LP, PO, SC, TA.
 Elevation: 350–3300 m.
 Type: *Lorentz 69*. HT: B; IT: CORD. Argentina.
 Voucher: *P. Ibsch & C. Ibsch 93.0208* (LPB, SEL).
- Tillandsia lotteae*** H. Hrom., *J. Bromeliad Soc.* 28: 263. 1978.
 Dept.: CH, CO, PO, SC.
 Elevation: (900–)1550–2900 m.
 Type: *H. Hromadnik PB 77*. HT: HEID; IT: HAL. Bolivia.
 Voucher: *M. Kessler et al. 4715* (LPB, SEL).
Endemic.
- Tillandsia mandonii*** E. Morren ex Mez, in C. DC., *Monogr. phan.* 9: 871. 1896.
 Dept.: LP, TA.
 Elevation: 1400–2650 m.
 Type: *Mandon 1180*. LT: not selected; ILT: BM, GH, K, PI, S, W. Bolivia.
 Voucher: *W. Till 73* (WU).
- Tillandsia mollis*** H. Hrom. & W. Till, *Pl. Syst. Evol.* 142: 123. 1983.
 Dept.: TA.
 Elevation: 2700 m.
 Type: *H. Hromadnik 9088*. HT: WU; IT: B, HAL, K, LI, NY, W, WU. Bolivia.
 Voucher: *E. Heger s.n.* (WU).
Endemic.
- Tillandsia muhriae*** W. Weber, *Feddes Repert.* 97: 101. 1986.
 Synonym(s): *Tillandsia alberi* Ehlers, *Die Bromelie* 4/87: 55. 1987.
 Dept.: PO.
 Elevation: 2650–3400 m.
 Type: *Muhr s.n.* HT: HAL. Argentina.
 Voucher: *E. Haugg 7029* (WU).
- Tillandsia myosura*** Griseb. ex Baker, *J. Bot.* 16: 240. 1878.
 Dept.: CH, CO, PO, TA.
 Elevation: 1900–3200 m.
 Type: *Lorentz 122*. HT: BM; IT: B, NY. Argentina.
 Voucher: *S. Beck & M. Libermann 14268* (LPB, SEL).
- Tillandsia nana*** Baker, *Handb. Bromel.* 172. 1889.

- Synonym(s): *Tillandsia calocephala* Wittm., Meded. Rijks-Herb. 29: 90. 1916.
 Dept.: CO, LP.
 Elevation: 3150 m.
 Type: *Gay s.n.* HT: P. Peru.
 Voucher: *Shepard 234* (GH, US), cited for Bolivia in *Fl. Neotrop. Monogr.* 14(2): 807. 1977.
- Tillandsia oropezana*** L. Hrom., *Die Bromelie* 1/89: 14. 1989.
 Dept.: CH.
 Elevation: 1800 m.
 Type: *H. Hromadnik 9012*. HT: WU; IT: WU. Bolivia.
 Voucher: Only known from type collection.
Endemic.
- Tillandsia paleacea*** C. Presl, *Reliq. haenk.* 1(2): 125. 1827.
 Synonym(s): *Tillandsia scalarifolia* Baker, *J. Bot.* 25: 235. 1887.
 Dept.: LP.
 Elevation: 2600 m.
 Type: *Haenke s.n.* HT: PR. Chile.
 Voucher: *Julio 158* (BM, US). Cited for Bolivia in *Fl. Neotrop. Monogr.* 14(2): 863. 1977.
- Tillandsia paraensis*** Mez, in *Mart., Fl. bras.* 3(3): 586. 1894.
 Dept.: LP, PA, SC.
 Elevation: 150–900 m.
 Type: *Sieber 68*. HT: BM. Brazil.
 Voucher: *T. Krömer & A. Acebey 187* (LPB, SEL).
- Tillandsia pedicellata*** (Mez) A. Cast., *Lilloa* 11: 144. 1945. Basionym: *Tillandsia coarctata* Gillies ex Baker var. *pedicellata* Mez, in *C. DC., Monogr. phan.* 9: 865. 1896.
 Dept.: CH, LP, TA.
 Elevation: 2200–3000 m.
 Type: *Hieronymus 795*. LT: B; ILT: BM, CORD, GH, GOET. Argentina.
 Voucher: *B. Holst et al. 4958* (USZ).
- Tillandsia platyrachis*** Mez, in *C. DC., Monogr. phan.* 9: 848. 1896.
 Dept.: LP.
 Elevation: 900 m.
 Type: *Kalbreyer 1328*. HT: K. Colombia.
 Voucher: *T. Krömer et al. 199* (GOET, LPB, SEL).
- Tillandsia pohliana*** Mez, in *Mart., Fl. bras.* 3(3): 597. 1894.
 Dept.: BE, CH, LP, SC.
 Elevation: 250–1700 m.
 Type: *Pohl 3658*. HT: W (lost). Brazil.
 Voucher: *M. Kessler et al. 4845* (LPB, SEL).
- Tillandsia polystachia*** (L.) L., *Sp. pl.* (ed. 2) 1: 410. 1762. Basionym: *Renalmia polystachia* L., *Sp. pl.* 1: 286. 1753.
 Dept.: BE, LP, SC.
 Elevation: 250–1200 m.
 Type: *Plumier s.n.* HT: P. West Indies.
 Voucher: *M. Kessler et al. 4157* (LPB, SEL).
- Tillandsia pseudocardenasii*** W. Weber, *Feddes Rept.* 97: 103. 1986.
 Dept.: LP, SC.
 Elevation: 2300 m.
 Type: *H. Hromadnik & L. Hromadnik 5323*. HT: HAL; IT: WU. Bolivia.
 Voucher: *K. Uhlig s.n.* (WU).
Endemic.
- Tillandsia pyramidata*** André, *Bromel. Andr.* 86: 1889; emend. Rauh, *Trop. Subtrop.* 3: 15. 1973.
 Dept.: LP.
 Elevation: 2400 m.
 Type: *André 1522*. HT: K. Colombia.
 Voucher: *S. Beck 3142* (LPB). Det. L.B. Sm.
- Tillandsia rauschii*** Rauh & Lehmann, *Trop. Subtrop. Pflanzenwelt* 21: 41. 1977.
 Dept.: CH?.
 Elevation: 2500? m.
 Type: *Bot. Garten Heidelberg 31623* (= *Rausch s.n.*). HT: HEID; IT: LPB, WU. Bolivia.
 Voucher: Only known from type collection, without specific locality.
Endemic.
- Tillandsia rectangula*** Baker, *J. Bot.* 16: 238. 1878.
 Dept.: TA.
 Elevation: 500–2100 m.
 Type: *Lorentz 127*. HT: K. Argentina.
 Voucher: *E. Bastian 1295* (LPB).
- Tillandsia recurvata*** (L.) L., *Sp. pl.* (ed. 2) 1: 410. 1762. Basionym: *Renalmia recurvata* L., *Sp. pl.* 1: 287. 1753.
 Synonym(s): *Tillandsia recurvata* f. *brevifolia* André, *Bromel. Andr.* 65: 1889.
 Dept.: BE, CH, CO, LP, SC, TA.
 Elevation: 200–3100 m.
 Type: *Sloane s.n.* HT: BM; IT: B, GOET, M, P. Jamaica.
 Voucher: *M. Kessler et al. 6050* (LPB, SEL).
- Tillandsia recurvifolia*** Hook., *Bot. Mag.* 87: pl. 5246. 1861.
 Synonym(s): *Tillandsia meridionalis* auct. non Baker: sensu Smith & Downs, *Fl. Neotrop. Monogr.* 14(2): 820. 1977.
 Dept.: CH, SC, TA.
 Elevation: 1200–1550 m.
 Type: Original description and plate.
 Voucher: *W. Till 156* (WU).
- Tillandsia recurvispica*** L. Hrom. & P. Schneid., *Die Bromelie* 1/87: 1. 1987.
 Dept.: CO.
 Elevation: 2500–2600 m.
 Type: *H. Hromadnik & L. Hromadnik 3007*. HT: WU; IT: LPB, WU. Bolivia.
 Voucher: *H. Hromadnik & L. Hromadnik 5330* (WU).
Endemic.
- Tillandsia reichenbachii*** Baker, *Handb. Bromel.* 166. 1889.
 Synonym(s): *Tillandsia herzogii* Wittm., *Meded. Rijks-Herb.* 29: 89. 1916.
 Dept.: CH, CO, SC, TA.
 Elevation: 200–2500 m.
 Type: Reichenbach icon; with no specific locality. (K).
 Voucher: *R. Martinez 591* (LPB, SEL).

- Tillandsia rhomboidea** André, Énum. Bromél. 6: 13 Dec. 1888; Rev. Hort. 60: 566. 16 Dec. 1888.
Dept.: BE.
Elevation: 700–800 m.
Type: *André 2745*. LT: K; IT: NY. Colombia.
Voucher: *S. Beck 1732* (US).
- Tillandsia rubella** Baker, J. Bot. 26: 44. 1888.
Dept.: CO, LP, SC.
Elevation: 1800–3000 m.
Type: *Mandon 1187*. HT: K; IT: GH, P. Bolivia.
Voucher: *M. Kessler et al. 4496* (LPB, SEL).
- Tillandsia rusbyi** Baker, Handb. Bromel. 176: 1889.
Dept.: LP, SC.
Elevation: 850–1800 m.
Type: *H. Rusby 2163*. HT: NY. Bolivia.
Voucher: *T. Krömer & A. Acebey 183* (LPB, SEL).
- Tillandsia samaipatensis** W. Till, Die Bromelie 2/1996: 36. Feb. 1997.
Dept.: LP, SC.
Elevation: 850–1350 m.
Type: *W. Till 1492*. HT: LPB; IT: SEL, WU. Bolivia.
Voucher: *M. Kessler et al. 4112* (LPB, SEL).
- Endemic.**
- Tillandsia schreiteri** Lillo & A. Cast., Anales Mus. Nac. Hist. Nat. Buenos Aires 36: 56. 1929.
Dept.: TA.
Elevation: 1800 m.
Type: *Schreiter s.n.* HT: BA. Argentina.
Voucher: *H. Hromadnik 9099* (WU).
- Tillandsia sphaerocephala** Baker, J. Bot. 26: 141. 1888.
Dept.: CH, CO, LP, SC, TA.
Elevation: 1400–3750 m.
Type: *Mandon 1188*. HT: K; IT: G. Bolivia.
Voucher: *M. Kessler et al. 5525* (LPB, SEL).
- Tillandsia spirallipetala** Gouda, J. Bromeliad Soc. 36: 165. 1986. Basionym: *Tillandsia tricholepis* Baker var. *macrophylla* L.B. Sm., Lilloa 14: 98. 1948.
Dept.: CH, LP, SC.
Elevation: 350–1450(–2300) m.
Type: *Buchtien 1270*. HT: US; IT: E. Bolivia.
Voucher: *M. Kessler et al. 4059* (LPB).
- Tillandsia stenoura** Harms, Notizbl. Bot. Gart. Berlin-Dahlem 12: 537. 1935.
Dept.: CO.
Elevation: 2100–2900 m.
Type: *Diels 558*. HT: B. Ecuador.
Voucher: *P. Ibisch & C. Ibisch 93.0098* (SEL).
- Tillandsia streptocarpa** Baker, J. Bot. 25: 241. 1887.
Dept.: CO, CH, LP, PO, SC.
Elevation: 400–2700 m.
Type: *Balansa 615*. HT: K; IT: P, S. Paraguay.
Voucher: *M. Kessler et al. 4800* (LPB, SEL).
- Tillandsia superba** Mez & Sodiro, Bull. Herb. Boissier, sér. 2, 4: 1132. 1904.
Dept.: CO, LP.
Elevation: 2350–3250 m.
Type: *Sodiro 37-D*. HT: B. Ecuador.
Voucher: *R. Seidel 7015* (LPB, SEL).
- Tillandsia tenuifolia** L., Sp. pl. 1: 286. 1753.
Dept.: CH, CO, LP, SC, TA.
Elevation: 450–2800 m.
Type: *Royen s.n.* HT: L. Country unknown.
Voucher: *R. Seidel 7011* (LPB, SEL).
- Tillandsia tovarensis** Mez, in C. DC., Monogr. phan. 9: 769. 1896.
Dept.: CO, LP.
Elevation: 2250–2700 m.
Type: *A. Fendler 2446*. HT: GOET. Venezuela.
Voucher: *M. Kessler et al. 9677* (LPB, SEL).
- Tillandsia tricholepis** Baker, J. Bot. 16: 237. 1878.
Dept.: BE, CH, CO, LP, SC, TA.
Elevation: 200–2600 m.
Type: *Mandon 1179 in part*. HT: K; IT: BM, NY, P. S. Bolivia.
Voucher: *S. Beck 3200* (LPB, SEL). Det. L.B. Sm.
- Tillandsia usneoides** (L.) L., Sp. pl. (ed. 2) 1: 411. 1762. Basionym: *Renalmia usneoides* L., Sp. pl. 1: 287. 1753.
Dept.: CH, CO, LP, SC, TA.
Elevation: 1100–3800 m.
Type: *Anonymous in Clifford Herbarium s.n.* LT: BM. Jamaica.
Voucher: *M. Kessler et al. 4902* (LPB, SEL).
- Tillandsia variabilis** Schlttdl., Linnaea 18: 418. 1844.
Synonym(s): *Tillandsia valenzuelana* A. Rich. in Sagra, Hist. fis. Cuba, Bot. 11: 267. 1850.
Dept.: CO, LP, SC.
Elevation: 700–2200 m.
Type: *Schiede s.n.* LT: HAL; ILT: HAL. Mexico.
Voucher: *S. Beck 12613* (LPB, SEL).
- Tillandsia vernicosa** Baker, J. Bot. 25: 241. 1887.
Dept.: CH, CO, LP, SC, TA.
Elevation: 200–2400 m.
Type: *Christie s.n.* HT: K. Argentina.
Voucher: *M. Kessler et al. 4512* (LPB, SEL).
- Tillandsia violascens** Mez, in C. DC., Monogr. phan. 9: 797. 1896.
Dept.: CO, LP, SC.
Elevation: 1800–3500 m.
Type: *Mandon 1174 in part*. HT: P; IT: BM. Bolivia.
Voucher: *M. Kessler et al. 9025* (LPB, SEL).
- Tillandsia virescens** Ruiz & Pav., Fl. Peruv. 3: 43. 1802.
Synonym(s): *Tillandsia capillaris* f. *virescens* (Ruiz & Pavon) L.B. Sm., Proc. Amer. Acad. Arts 70: 212. 1935.
Dept.: CH, CO, LP, PO, SC, TA.
Elevation: 1300–4000 m.
Type: *Ruiz & Pavon s.n.* LT: BM. Peru.
Voucher: *M. Kessler et al. 5911* (LPB, SEL).
- Tillandsia walter-richteri** W. Weber, J. Bromeliad Soc. 34: 102. 1984.
Dept.: TA.
Elevation: 1800 m.

Type: *H. Hromadnik & E. Hromadnik 5142*. HT: HAL; IT: WU. Bolivia.

Voucher: Only known from type collection.

Endemic.

Tillandsia walteri Mez, Repert. Spec. Nov. Regni Veg. 3: 43. 1906.

Dept.: CO, LP.

Elevation: 2500–3000 m.

Type: *Weberbauer 4319*. HT: B. Peru.

Voucher: *M. Kessler et al. 12509* (LPB, SEL).

Tillandsia xiphioides Ker-Gawler, Bot. Reg. 2: pl. 105. 1816.

Dept.: CH, CO, LP, PO, TA.

Elevation: 800–3200 m.

Type: Original description and plate.

Voucher: *M. Cárdenas 93* (GH, SI).

Tillandsia yuncharaensis W. Till, J. Bromeliad Soc. 40: 214. 1990.

Dept.: TA.

Elevation: 3000 m.

Type: *W. Till et al. sub WT 55*. HT: WU. Bolivia.

Voucher: Only known from type collection.

Endemic.

***Tillandsia* sp. 1.**

Synonym(s): *Tillandsia bryoides* auct. non Griseb. ex Baker: Smith and Downs, Fl. Neotrop. Monogr. 14: 879. 1977; Brako and Zarucchi, Monogr. Syst. Bot. Missouri Bot. Gard. 45: 250. 1993; Zuloaga and Morrone, Monogr. Syst. Bot. Missouri Bot. Gard. 60: 114. 1996.

Tillandsia bryoides Grisebach, Abh. Königl. Ges. Wiss. Göttingen 24: 334. 1879, in part; *Tillandsia coarctata* Gillies ex Mez, in C. DC., Monogr. phan. 9: 865. 1896, in part.

Dept.: CH, CO, LP, OR, PO, SC, TA.

Elevation: (400–)1200–3000 m.

Voucher: *M. Cárdenas 3309* (GH).

Note: This taxon has often been identified as *Tillandsia bryoides*, but appears to be a fairly widespread, undescribed species.

VRIESEA

Vriesea* cf. *chrysostachys E. Morren, Belgique Hort. 31: 87. 1881.

Dept.: LP.

Elevation: 900 m.

Type: *Davis in Hort. Veitch s.n.* HT: LG. Peru.

Voucher: *M. Kessler et al. 10146* (LPB, SEL). "cf."

Vriesea chontalensis (Baker) L.B. Sm., Contr. U.S. Natl. Herb. 29: 518. 1951. Basionym: *Tillandsia chontalensis* Baker, J. Bot. 25: 237. 1887.

Dept.: LP.

Elevation: 1300 m.

Type: *R. Tate 413*. HT: BM. Nicaragua.

Voucher: *M. Kessler et al. 9872* (LPB).

Vriesea friburgensis Mez, in Mart., Fl. bras. 3(3): 537. 1894.

Dept.: CH, SC, TA.

Elevation: 500–1350 m.

Type: *Glaziou 16467*. HT: K; IT: C, LE, P. Brazil. Voucher: *B. Holst et al. 4887* (SEL, USZ).

Vriesea heliconioides (Kunth) Hook. ex Walp., Ann. Bot. Syst. 3: 623. 1852. Basionym: *Tillandsia heliconioides* Kunth, Nov. gen. sp. 1: 293. 1816.

Dept.: BE, LP, SC.

Elevation: 200–500 m.

Type: *Humboldt & Bonpland s.n.* HT: P. Colombia.

Voucher: *J. Solomon 6431* (LPB, SEL).

Vriesea heterandra (André) L.B. Sm., Contr. U.S. Natl. Herb. 29: 443. 1951. Basionym: *Tillandsia heterandra* André, Enum. Bromél. 7: 13 Dec. 1888; Rev. Hort. 60: 567. 16 Dec. 1888.

Dept.: LP, SC, TA.

Elevation: 600–1550 m.

Type: *André 1213*. HT: K. Colombia.

Voucher: *M. Kessler 9875* (LPB, SEL).

Vriesea incurva (Griseb.) Read, Phytologia 16: 458. 1968. Basionym: *Tillandsia incurva* Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Universität. [1]: 15. 1864.

Dept.: BE?, LP.

Elevation: 700–950 m.

Type: *A. Fendler 1524*. HT: GOET; IT: GH. Venezuela.

Voucher: *Buchtien 373* (US). Cited for Bolivia in Fl. Neotrop. Monogr. 14 (2): 1251. 1977.

Vriesea maxoniana (L.B. Sm.) L.B. Sm., Phytologia 6: 441. 1959. Basionym: *Tillandsia maxoniana* L.B. Sm., Contr. Gray Herb. 124: 11. 1939.

Dept.: CH, LP, SC, TA.

Elevation: 500–1550 m.

Type: *Buchtien 4538*. HT: US. Bolivia.

Voucher: *B. Holst et al. 4801* (USZ, SEL).

Vriesea platynema Gaudich., Voy. Bonite, Bot. pl. 66. 1843.

Dept.: LP.

Elevation: 1050 m.

Type: *Gaudichaud s.n.* HT: P. Brazil.

Voucher: *M. Kessler et al. 10196* (LPB, SEL).

Vriesea rubra (Ruiz & Pav.) Beer, Fam. Bromel. 98. 1856. Basionym: *Tillandsia rubra* Ruiz & Pav., Fl. peruv. 3: 40, pl. 266. 1802.

Dept.: BE, LP.

Elevation: 450–850 m.

Type: *Ruiz & Pavon s.n.* HT: MA. Peru.

Voucher: *T. Krömer et al. 1* (LPB, SEL).

WERAUHIA

Werauhia boliviana H. Luther, Selbyana 19: 218. 1998 [1999].

Dept.: LP.

Elevation: 950 m.

Type: *M. Kessler 3907*. HT: SEL; IT: LPB. Bolivia.

Voucher: Only known from type collection.

Endemic.

Werauhia gladioliflora (H. Wendl.) J.R. Grant, Trop. Subtrop. Pflanzenwelt 91: 31. 1995. Bas-

ionym: *Tillandsia gladioliflora* Wendland,
Hamburger Garten-Blumenzeitung 19: 31.
1863.

Dept.: CO, LP.

Elevation: 350–1300 m.

Type: *Wendland in Herrenhausen Hortus s.n.* HT:
HBG?, Costa Rica.

Voucher: *M. Kessler 9874 et al.* (LPB, SEL).

Werauhia sanguinolenta (Linden ex Cogn. & Mar-

chal) J.R. Grant, Trop. Subtrop. Pflanzenwelt
91: 35. 1995. Basionym: *Vriesea sanguinolenta*
Linden ex Cogn. & Marchal, Pl. ornem. 2: pl.
52. 1874.

Dept.: SC.

Elevation: ca. 400 m.

Type: *E. Morren in Liège Hortus s.n.* CT?: LG. Cos-
ta Rica.

Voucher: *M. Kessler et al. 8642* (LPB, SEL).