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ORIGINAL RESEARCH PAPERS ON  
A MISCELLANY OF TOPICS ON  
THE SUBJECT OF SUCCULENT  
PLANTS AUTHORED AND  
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Taxonomy  
Botanical History  
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&c.

## **An annotated checklist of the infragenera of *Agave* L.**

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### ***Summary***

The present paper attempts to list all known infrageneric divisions of *Agave* L. (114) with their status under the present rules, together with their etymology and typification. 45 species of *Agave* L. are types and are listed alphabetically together with the valid and legitimate infrageneric names that have been applied to them, in chronological order.

*No new names or type designations are proposed in this paper*

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## An annotated checklist of the infragenera of *Agave* L.

Species of the genus *Agave* L. divide naturally into those with an unbranched inflorescence (spicate) and those that branch at the top, bearing bunches of flowers at the ends of each branch (paniculate). Since agaves do not reach floral maturity until late in life, this division was not noticed by many early botanists who consequently classified mainly on leaf characters.

The earliest segregate was *Littaea geminiflora* Tagl. in 1812. It was at first thought to belong with *Dracaena* or *Yucca*, but Tagliabue himself surmised that it lay somewhere between *Agave* L. and *Yucca* L. However, the new genus he had created was soon absorbed into *Agave* L. in 1817 by the Kew botanist Ker Gawler, who was quick to recognise its true affinity.

The earliest infrageneric classification of the genus *Agave* L. was provided by Prince Salm-Dyck, who recognised five sections based on leaf form only.

J. G. Baker of Kew gave the fullest classification of the 19thC, using a mixture of floral and vegetative characters. He was also the first to publish rankless infrageneric names called “groups”, a now out-dated fashion which has strangely been continued into modern times. New group names since 1 Jan 1953 are of course invalidly published (Art. 37.1). However, Gentry (1982) did indicate that his own groups were “sectional” on p.62 of his monograph, so he has been given the benefit of the doubt with regard to ranking here.

Unfortunately, this is academic because he also forgot to provide or refer to Latin diagnoses.

Of the larger generic segregates, *Littaea* Tagl., *Manfreda* Salisb. and *Polianthes* L. have been shown to be embedded in the genus *Agave* L. according to two molecular studies, so are here included.

The taxonomic literature on *Agave* has been somewhat cryptic, being mostly buried in rare obsolete journals, and a full bibliography of taxonomic works has been lacking until now.

### Key to abbreviations & glossary of terms:

Art. Article (rule) of the *ICN* (Botanical Code).

autotype. A type generated by application of the rules, rather than cited by the author or otherwise designated.

*Bas.* Basionym.

*Etym.* Etymology. The source of the formation and meaning of a name or word.

gen. Genus.

*HT.* Holotype.

infragen. (infragenera) An unspecified rank.

*LT.* A replacement type selected from species cited in the protologue.

nom. nov. (nomen novum) Replacement name for one that cannot be used, usually one that was illegitimate.

nom. nud. (nomen nudum) Name published without, or with inadequate, description for validation.

nothogen. (nothogenus) Name of hybrid origin.

*Obs.* (observatio) An observation.

*Par.* (parentes) Parentage, either putative or known.

pro As

*Ref.* A conservative, broadly circumscribed genus to which the taxon is referred.

*Rep. Syn.* Replaced synonym. An illegitimate or otherwise unusable name on which a new name has been based. Not the same as the basionym of new combination.

*Syn.* A homotypic synonym (sharing the same type).

*T.* (typus) The automatic or nominated species on which the taxon is based.

All scientific names and book & journal titles are shown in italics in accordance with international convention.

Author abbreviations are the internationally accepted standard forms given in Brummitt & Powell, *Authors of plant names* (1992).

The rules of nomenclature and the Articles cited in this document are those contained in:

**McNeill, J., Barrie, F. R., Buck, W. R., Demoulin, V., Greuter, W., Hawksworth, D. L., Herendeen, P. S., Knapp, S., Marhold, K., Prado, J., Prud'homme van Reine, W. F., Smith, G. F., Wiersema, J. H., & Turland, N. J.** (ed.) International code of nomenclature for algae, fungi, and plants (Melbourne Code) adopted by the Eighteenth International Botanical Congress Melbourne, Australia, July 2011. *Regnum Vegetabile* 154. Koeltz Scientific Books, Königstein, for the International Association for Plant Taxonomy, Bratislava, 2012.

### The generic name

*Agave* L., *Species plantarum* 1: 323-324. (1 May) 1753 & *Genera plantarum* (ed.5): 150. (Aug) 1754 [Both treated as having been published simultaneously on 1 May 1754 (Art. 13.4)].

*Etym:* A name created by Linnaeus in *Hortus upsaliensis* (1748: 88), with the explanation: "Not having had an earlier or ancient name, it is called *Agave* on account of it being a plant worthy of admiration." A feminine first declension noun formed from the Greek adjective *ágauós*, illustrious or noble. Not, however, named for Agave, the daughter of Kadmos, mother of Pentheus, in Greek mythology, as some writers have speculated.

*T:* Not cited. Included four species in the protologue, although when the name had been first proposed five years earlier it included only *Agave americana* L.

*LT:* *Agave americana* L. The first formal designation was by N. L. Britton & P. Wilson, Descriptive flora, in N. L. Britton, *Scientific survey of Porto Rico and the Virgin Islands* 5(1): 156. (10 Aug) 1923.

## Checklist of *Agave infragenera*

***Acaules*** Salm-Dyck (pro infragen. *Agave* L.), *Index plantarum succulentarum in horto Dyckensi cultarum. Anno 1829*: 3. 1829 nom. nud.

*Etym*: Stemmed.

*T*: Not cited, but includes the type of the genus.

*Ref*: *Agave* L. infragen. *Agave*.

***Acaules*** Salm-Dyck (pro infragen. *Agave* L.), *Hortus Dyckensis*: 7-8. 1834 nom. inval. (Art. 22.2).

*Etym*: Stemmed.

*T*: Not cited, but includes the type of the genus.

*Obs*: Also published with a brief description in *Index plantarum succulentarum in horto Dyckensi cultarum. Anno 1834*: 3. 1834.

*Ref*: *Agave* L. infragen. *Agave*.

***Aculeatae*** A.Terracc. (pro subser. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-8, 28. (Jun) 1885.

*Etym*: Spiny.

*T*: Not cited.

***Allibertia*** Marion (pro gen.), in Marion & Deleuil, Note sur l'*Allibertia intermedia* (Nouveau genre d'Amaryllidées), *Revue Horticole des Bouches-du-Rhône* **28**: ? (Sep, Nov.) 1882 nom. illeg. (Art. 52.1, ?53.1).

*Etym*: Named for Mr. ALLIBERT.

*T*: *Allibertia intermedia* Marion [= *Agave virginica* L.]. Autotype (Art. 10.2). The only included species.

*Obs*: Also issued as a separate repaginated [1]-4. A homotypic synonym of *Manfreda* Salisb. (1866). Could also be considered as a later homonym of *Alibertia* A.Rich. (1830).

*Ref*: *Agave* L.

***Aloideae*** Baker (pro infragen. *Agave* L. as “group” below rank of ser.), The genus *Agave*, *The Gardeners' Chronicle*, Ser. 2 **4**(1): 171. (10 Feb) 1877. Also **4**(2): 558 (17 Nov) 1877; **4**(2): 808. (29 Dec) 1877.

*Etym*: *Aloe*-like.

*T*: Not cited.

*Obs*: Includes the type of *Micracanthae* Salm-Dyck (1859, pro sect.). Terracciano broadened the circumscription to include *Rigidae* Baker pro parte.

**Aloideae** (Baker) A.Terracc., (pro subser. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-9, 22. (Jun) 1885.

*Bas*: *Aloideae* Baker (1877, pro infragen. *Agave* L.).

*Obs*: Rank indicated on p.6 & 8.

**Americanae** Baker (pro infragen. *Agave* L. as “group” below ser.), The genus *Agave*, *The Gardeners’ Chronicle*, Ser. 2 4(1): 171. (10 Feb) 1877 nom. inval. (Art. 22.2). Also p.718. (14 Jun) 1877; 4(2): 808. (29 Dec) 1877.

*Etym*: Based on the name of an included species.

*T*: *Agave americana* L. Autotype (Art. 22.6). The type of the genus.

*Syn*: *Agave* L. infragen. *Agave*.

**Americanae** Baker ex A.Terracc. (pro subsect. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-7, 36. (Jun) 1885 nom. inval. (Art. 22.2).

*Etym*: Based on the name of an included species.

*T*: *Agave americana* L. Autotype (Art. 22.6). The type of the genus.

*Syn*: *Agave* L. subsect. *Agave*.

**Americanae** Baker ex A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 24, 27, 148. (Oct-Nov) 1915 nom. inval. (Art. 22.2).

*Etym*: Based on the name of an included species.

*T*: *Agave americana* L. Autotype (Art. 22.6). The type of the genus.

*Syn*: *Agave* L. ser. *Agave*.

**Americanae** Baker ex Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 267, 269, 270. 1982 nom. inval. (Art. 22.2).

*T*: *Agave americana* L.

*Obs*: Rank indicated on p. 269.

*Syn*: *Agave* L. sect. *Agave*.

**Amolae** Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 62, 63. 1982 nom. inval. (Art. 39.1) & illeg. (Art. 52.1).

*Etym*: Not explained. Perhaps from *amolior*, to set aside, an indication of the atypical unarmed leaves.

*T*: *Agave attenuata* Salm-Dyck.

*Obs*: Rank indicated on p. 62. Lacks a Latin description. Includes the types of infragen. *Attenuatae* Baker (1877) & sect. *Yuccaefoliae* (Baker) B.Ullrich (1996).

**Anacamptagave** A.Berger (pro sect. *Agave* L.), *Die Agaven*: 22-23, 26, 38-39. (Oct-Nov) 1915.

*Etym*: Bent backwards agave. A reference to the recurved floral segments.

*T*: Not cited.

*Obs*: Includes the type of *Agave* L. subser. *Aloideae* (Baker) A.Terracc.

**Anacamptagave** A.Berger (pro subsect. *Agave* L.), *Die Agaven*: 38-39. (Oct-Nov) 1915.

*Etym*: Autonym. Repeats the section name.

*T*: Not cited.

**Anoplagave** A.Berger (pro sect. *Agave* L.), *Die Agaven*: 22-23, 25, 121. (Oct-Nov) 1915.

*Etym*: Unarmed agave. For the absence of leaf-margin spines.

*T*: Not cited.

*Obs*: Includes *Inermes* Jacobi, *Subinermes* Jacobi pro parte, *Serrulatae* Baker & *Attenuatae* Baker.

**Antillanae** Trel. (pro infragen. *Agave* L. as “group”), *Agave in the West Indies, Memoirs of the National Academy of Sciences* 11: 9, 29. 1913.

*Etym*: From the Greater Antilles, to which they are mainly endemic.

*T*: *Agave antillarum* Descourt.

**Antillanae** (Trel.) A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 25, 26, 205. (Oct-Nov) 1915.

*Bas*: *Antillanae* Trel. (1913, pro infragen. *Agave* L.).

**Antillares** Trel. (pro infragen. *Agave* L. as “group”), *Agave in the West Indies, Memoirs of the National Academy of Sciences* 11: 9, 42. 1913.

*Etym*: From the Western Antilles (Cuba), to which they are confined.

*T*: *Agave willdingii* Tod.

**Antillares** (Trel.) A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 25, 26, 271-272. (Oct-Nov) 1915.

*Bas*: *Antillares* Trel. (1913, pro infragen. *Agave* L.).

***Aplagave*** A.Terracc. (pro subgen. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-11. (Jun) 1885.

*Etym*: Single agave, for the unbranched inflorescence.

*T*: Not cited.

***Applanatae*** Trel. (pro infragen. *Agave* L. as “group”), Revision of the agaves of the group *Applanatae*, *Missouri Botanical Garden Annual Report* 22: 85-86. (14 Feb) 1912.

*Etym*: Based on the name of an included species.

*T*: *Agave applanata* K.Koch. Autotype (Art. 10.2). The only included species.

***Applanatae*** (Trel.) A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 24, 27, 173. (Oct-Nov) 1915.

*Bas*: *Applanatae* Trel. (1913, pro infragen. *Agave* L.).

***Atrovirentes*** Trel. (pro infragen. *Agave* L.), The *Agaveae* of Guatemala, *Transactions of the Academy of Science of St. Louis* 23(3): 134. (15 Jul) 1915.

*Etym*: Dark green.

*T*: *Agave tecta* Trel. Autotype (Art. 10.2). The only included species.

***Attenuatae*** Baker (pro infragen. *Agave* L. as “group” below rank of ser.), The genus *Agave*, *The Gardeners' Chronicle*, Ser. 2 4(2): 748. 1877; 4(2): 808. (29 Dec) 1877.

*Etym*: Based on the name of an included species.

*T*: *Agave attenuata* Salm-Dyck. Autotype (Art. 22.6).

***Attenuatae*** (Baker) A.Terracc., (pro subser. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-9, 20. (Jun) 1885.

*Bas*: *Attenuatae* Baker (1877, pro infragen. *Agave* L.).

*Obs*: Rank indicated on p.6 & 8.

***Bahamae*** Trel. (pro infragen. *Agave* L. as “group”), *Agave in the West Indies*, *Memoirs of the National Academy of Sciences* 11: 9, 38. 1913.

*Etym*: From the Bahamas, to which they are confined.

*T*: *Agave bahamana* Trel.



**Bahamanae** (Trel.) A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 25, 28, 202. (Oct-Nov) 1915.

*Bas*: *Bahamanae* Trel. (1913, pro infragen. *Agave* L.).

**Bonapartea** Haw. (pro gen.), *Synopsis plantarum succulentarum*: 68. 1812 nom. illeg. (Art. 53.1).

*Etym*: Not stated, but presumably commemorates Napoléon BONAPARTE (1769-1821).

*T*: *Bonapartea juncea* Haw. [non Ruiz & Pav.] [= *Agave geminiflora* (Tagl.) Ker Gawl.]. Autotype (Art. 10.2). The only included species.

*Ref*: *Agave* L.

**Brachysolenagave** A.Berger (pro sect. *Agave* L.), *Die Agaven*: 22-23, 27, 116. (Oct-Nov) 1915.

*Etym*: Short-tubed agave. A reference to the short flower tubes.

*T*: Not cited.

*Obs*: Includes *Marginatae* Baker pro parte.

**Bravo** Lexarza (pro gen.), in La Llave & Lexarza, *Novorum vegetabilium descriptiones* 1: 6. 1824.

*Etym*: Named for the Leonardo & Michaeli BRAVO brothers.

*T*: *Bravo geminiflora* Lexarza [= *Agave duplicata* Thiede & Eggl]. Autotype (Art. 10.2). The only included species. Not to be confused with *Agave geminiflora* (Tagl.) Kerr Gawl. (1812).

*Ref*: *Agave* L.

**Campaniflorae** Trel. (pro infragen. *Agave* L. as “group”), The agaves of Lower California, *Missouri Botanical Garden Annual Report* 22: 40, 44. (14 Feb) 1912.

*Etym*: With bell-shaped flowers.

*T*: Not cited.

*LT*: *Agave aurea* Brandege. Designated by Gentry (1982: 309).

**Campaniflorae** (Trel.) A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 25, 28, 168. (Oct-Nov) 1915.

*Bas*: *Campaniflorae* Trel. (1913, pro infragen. *Agave* L.).

**Campaniflorae** (Trel.) Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 268, 269, 309. 1982.

*Bas*: *Campaniflorae* Trel. (1913, pro infragen. *Agave* L.).

*Obs*: Rank indicated on p. 269.

**Canaliculatae** Jacobi (pro infragen. *Agave* L.), Versuch zu einer systematischen Ordnung der Agaveen, *Hamburger Garten- und Blumenzeitung* **20**: 502, 510. 1864.

*Etym.* Grooved. A reference to the linear grooved leaf epidermis.

*T*: Not cited.

**Canaliculatae** (Jacobi) A.Terracc. (pro subsect. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-8, 36. (Jun) 1885.

*Bas*: *Canaliculatae* Jacobi (1864, pro infragen. *Agave* L.).

**Caribaeae** Trel. (pro infragen. *Agave* L. as “group”), *Agave in the West Indies*, *Memoirs of the National Academy of Sciences* **11**: 9, 21. 1913.

*Etym*: From the Latin adjective *caribaeus*, Caribbean.

*T*: *Agave karatto* Mill.

**Caribaeae** (Trel.) A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 25, 26, 213. (Oct-Nov) 1915.

*Bas*: *Caribaeae* Trel. (1913, pro infragen. *Agave* L.).

**Carnosae** Jacobi (pro infragen. *Agave* L.), Versuch zu einer systematischen Ordnung der Agaveen. *Hamburger Garten- und Blumenzeitung* **20**: 499, 506-508. 1864 nom. inval. (Art. 22.2).

*Etym.* Fleshy. A reference to the succulent leaves.

*T*: Not cited, but includes the type of the genus.

*Ref*: *Agave* L. infragen. *Agave*.

**Carnosocoriaceae** Baker, (pro ser. *Agave* L.), The genus *Agave*, *The Gardeners' Chronicle*, Ser. 2 **4**(1): 171. (10 Feb) 1877.

*Etym*: Leathery and fleshy. A reference to the leaf texture.

*T*: Not cited.

*Obs*: Includes the type of *Littaea* Tagl.

**Carnosoherbaceae** Baker, (pro ser. *Agave* L.), The genus *Agave*, *The Gardeners' Chronicle*, Ser. 2 **4**(2): 807. (29 Dec) 1877.

*Etym*: Herbaceous and fleshy.

*T*: Not cited.

*Obs*: Includes the type of *Manfreda* Salisb. (1866, pro gen.).

**Caulescentes** Salm-Dyck (pro infragen. *Agave* L.), *Index plantarum succulentarum in horto Dyckensi cultarum. Anno 1829*: 3. 1829;  
*Hortus Dyckensis*: 7. 1834 nom. nud.

*Etym*: Becoming stemmed.

*Obs*: Up to six species of which four belong to the genus *Furcraea* Vent., but not including its type.

**Caulescentes** M.Roem. (pro infragen. *Agave* L.), *Familiarum naturalium regni vegetabilis synopses monographicae* **4**: 286, 291.  
(May-Oct) 1847.

*Etym*: Becoming stemmed.

*T*: Not cited.

**Chiapenses** A.Berger (pro infragen. *Agave* L. below subsect.), *Die Agaven*: 39. (Oct-Nov) 1915.

*Etym*: Based on the name of an included species.

*T*: *Agave chiapensis* Jacobi. Autotype (Art. 22.6).

**Chloropsis** M.Roem. (pro subgen. *Agave* L.), *Familiarum naturalium regni vegetabilis synopses monographicae* **4**: 283. (May-Oct) 1847.

*Etym*: Grass-green.

*T*: *Agave lurida* Aiton [cited as “Herbert, t.33 fig.16-19, which depict parts of *A. lurida*].

**Chonanthagave** A.Berger (pro sect. *Agave* L.), *Die Agaven*: 22-23, 27, 78. (Oct-Nov) 1915.

*Etym*: Funnel flowered agave.

*T*: Not cited.

*Obs*: Includes *Loriformes* Jacobi & *Striatae* Baker pro parte.

**Chondracanthae** Jacobi (pro infragen. *Agave* L.), Versuch zu einer systematischen Ordnung der Agaveen, *Hamburger Garten- und Blumenzeitung* **20**: 502-503, 511-512. 1864.

*Etym*. Cartilaginous-spined.

*T*: Not cited.

***Choritepalae*** Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 62, 89. 1982 nom. inval. (Art. 39.1).

*Etym*: Having separate tepals.

*T*: *Agave ellemeetiana* Jacobi.

*Obs*: Rank indicated on p. 62. Lacks a Latin description.

***Cladagave*** A.Terracc. (pro subgen. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-9, 36. (Jun) 1885 nom. inval. (Art. 22.2).

*Etym*: Branched agave, for the branching inflorescence.

*T*: Not cited, but includes the type of the genus.

*Ref*: *Agave* L. subgen. *Agave*.

***Coetocapnia*** Link & Otto (pro gen.), *Icones plantarum rariorum* (3): t.18 (Jul-Dec) 1828 nom. illeg. (Art. 52.1).

*Etym*: Smoke-like.

*T*: *Bravoa geminiflora* Lexarza. Autotype (Art. 10.2). The only included element.

*Ref*: *Agave* L.

*Syn*: *Bravoa* Lexarza.

***Coetocapnia*** M.Roem. (pro subgen. *Bravoa* Lexarza), *Familiarum naturalium regni vegetabilis synopsis monographicae* 4: 245. (May-Oct) 1847 nom. inval. (Art. 22.2).

*Rep.Syn*: *Coetocapnia* Link & Otto (1828, pro gen.).

*T*: *Bravoa geminiflora* Lexarza. Autotype (Art. 7.4). Same as the replaced synonym.

***Columbianae*** A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 222. (Oct-Nov) 1915.

*Etym*: Named for Columbia, the country of origin.

*T*: Not cited.

***Coriaceo-carnosae*** Baker (pro ser. *Agave* L.), *The genus Agave, The Gardeners' Chronicle*, Ser. 2 4: 171. (10 Feb) 1877 nom. inval. (Art. 22.2).

*Etym*: Fleshy and leathery. A reference to the leaf texture.

*T*: Not cited, but includes the type of *Agave* L.

*Ref*: *Agave* L. ser. *Agave*.

**Costaricensis** A.Berger (pro subser. *Agave* L.), *Die Agaven*: 22, 181, 201. (Oct-Nov) 1915.

*Etym*: Named for Costa Rica, the country of origin.

*T*: *Agave wercklei* F.A.C.Weber ex Wercklé. Autotype (Art. 10.2). The only included species.

*Obs*: Rank indicated on p.201.

**Crenatae** A.Berger (pro subser. *Agave* L.), *Die Agaven*: 22, 181, 194. (Oct-Nov) 1915.

*Etym*: Based on the name of an included species.

*T*: *Agave crenata* Jacobi = *Agave inaequidens* K.Koch. Autotype (Art. 22.6).

*Obs*: Rank indicated on p.194.

**Crenatae** (A.Berger) Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 268, 269, 323. 1982.

*Bas*: *Crenatae* A.Berger (1915, pro subser. *Agave* L.).

*Obs*: Rank indicated on p. 269. Superfluous combination at this rank also repeated by Ullrich, *Piante Grasse* 13(2): 53. 1993.

**Datyliones** Trel. (pro infragen. *Agave* L. as “group”), The agaves of Lower California, *Missouri Botanical Garden Annual Report* 22: 40, 45. (14 Feb) 1912.

*Etym*: Based on the name of an included species.

*T*: *Agave datylio* Simon ex F.A.C.Weber. Autotype (Art. 22.6).

**Datyliones** (Trel.) A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 24, 28, 259. (Oct-Nov) 1915.

*Bas*: *Datyliones* Trel. (1912, pro infragen. *Agave* L.).

**Delpinoa** H.Ross (pro gen.), *Delpinoa*, novum Agavearum genus, *Bollettino del Reale Orto Botanico di Palermo* 1(3-4): 116-117. (31 Dec) 1897

*Etym*: Named for Prof. Federico DELPINO.

*T*: *Delpinoa gracillima* H.Ross [= *Agave potosina* B.L.Rob. & Greenm.] Autotype (Art. 10.2). The only included element.

*Ref*: *Agave* L.

**Deserticolae** Trel. (pro infragen. *Agave* L. as “group”), The agaves of Lower California, *Missouri Botanical Garden Annual Report* 22: 40, 44-45. (14 Feb) 1912.

*Etym*: Desert living.

*T*: Not cited.

*LT*: *Agave deserti* Engelm. Designated by Gentry (1982: 354).

**Deserticolae** (Trel.) A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 24, 27, 260-261. (Oct-Nov) 1915.

*Bas*: *Deserticolae* Trel. (1912, pro infragen. *Agave* L.).

**Deserticolae** (Trel.) Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 268, 269, 354. 1982.

*Bas*: *Deserticolae* Trel. (1912, pro infragen. *Agave* L.).

*Obs*: Rank indicated on p. 269.

**Ditepalae** Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 268, 269, 416. 1982 nom. inval. (Art. 39.1).

*T*: *Agave shrevei* Gentry.

*Obs*: Rank indicated on p. 269.

**Emarginatae** A.Terracc. (pro subsect. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-7, 14. (Jun) 1885.

*Etym*: Without margins.

*T*: Not cited.

*Obs*: Includes the types of *Striatae* Baker (1877, pro infragen.) & *Yuccaefolia* Baker (1877, pro infragen.).

**Euagave** Baker, (pro subgen. *Agave* L.), The genus *Agave*, *The Gardeners' Chronicle*, Ser. 2 4(1): 171. (10 Feb) 1877 nom. inval. (Art. 21.3, 22.2).

*Etym*: The substantive *Agave*, with Greek prefix *eu-*, true-. The rules no longer allow this construction for infragenera.

*T*: Not cited, but includes the type of *Agave* L.

*Ref*: *Agave* L. subgen. *Agave*.

***Eumanfreda*** (Salisb.) Rose (pro subgen. *Agave* L.), A proposed rearrangement of the suborder *Agaveae*, Studies of Mexican and Central American plants – No. 2., *Contributions from the U.S. National Herbarium* 5(4): 153. (31 Oct) 1899 nom. inval. (Art. 21.3, 22.2).

*Etym*: The substantive *Manfreda*, with Greek prefix *eu-*, true-. The rules no longer allow this construction for divisions of genera.

*T*: Not cited, but includes the type of *Manfreda* Salisb.

*Ref*: *Agave* L. subgen. *Manfreda* (Salisb.) Baker.

***Euscolymoides*** A.Berger (pro subser. *Agave* L.), *Die Agaven*: 22, 181, 185. (Oct-Nov) 1915.

*Etym*: True-*Scolymoides*. The subseries of ser. *Scolymoides* that includes its type.

*T*: Not cited.

*Obs*: Rank indicated on p.185.

***Filiferae*** Baker, (pro infragen. *Agave* L. as “group” below rank of ser.), The genus *Agave*, *The Gardeners’ Chronicle*, Ser. 2 4(1): 171. (10 Feb) 1877. Also 4(2): 808. (29 Dec) 1877.

*Etym*: Based on the name of an included species.

*T*: *Agave filifera* Salm-Dyck. Autotype (Art. 22.6).

***Filiferae*** (Baker) A.Terracc., (pro subser. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-9, 17. (Jun) 1885.

*Bas*: *Filiferae* Baker (1877, pro infragen. *Agave* L.).

*Obs*: Rank indicated on p.6 & 8.

***Filiferae*** Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 62, 101. 1982 nom. inval. (Art. 39.1) & illeg. (Art. 52.1, 53.1).

*Etym*: Filiferous.

*T*: *Agave geminiflora* (Tagl.) Ker Gawl.

*Syn*: *Agave* sect. *Geminiflorae* Engelm. (1875).

*Obs*: Rank indicated on p. 62. Lacks a Latin description. Not to be confused with *Filiferae* Baker.

***Flaccifoliae*** A.Berger (pro infragen. *Agave* L. below subsect.), *Die Agaven*: 39. (Oct-Nov) 1915.

*Etym*: Based on the name of an included species.

*T*: *Agave flaccifolia* A.Berger = *Agave obscura* Schiede. Autotype (Art. 10.2). The only included species.

**Flexiles** Baker, (pro ser. *Agave* L.), The genus *Agave*, *The Gardeners' Chronicle*, Ser. 2 **4**(1): 171. (10 Feb) 1877. Also **4**(2): 780. (22 Dec) 1877.

*Etym*: Flexible. A reference to the leaves.

*T*: Not cited.

*Obs*: Name proposed simultaneously with *Yuccoideae* Baker for the same taxon, but both are valid under Art. 36.2. They were later segregated.

**Gasterioideae** Baker (pro infragen. *Agave* L. as “group” below rank of ser.), The genus *Agave*, *The Gardeners' Chronicle*, Ser. 2 **4**(1): 171. (10 Feb) 1877.

*Etym*: *Gasteria*-like.

*T*: Not cited.

*Obs*: Includes the type of *Manfreda* Salisb. (1866, pro gen.). Taxon later abandoned in favour of *Herbaceae* Salm-Dyck (1859, pro sect.).

**Geminiflorae** Engelm. (pro sect. *Agave* L.), Notes on *Agave*, *Transactions of the Academy of Science of St. Louis* **3**(3): 296, 304. (15 Dec) 1875.

*Etym*: Replacement for *Littaea* Tagl. at a new rank.

*T*: *Littaea geminiflora* Tagl. [= *Agave geminiflora* (Tagl.) Ker Gawl.]. Autotype (Art. 7.4).

*Obs*: Includes the type of *Agave* sect. *Heteracanthae* Salm-Dyck (1859). Baker (1877) reduced the rank to infraser. in ser. *Carnoso-coriaceae* Baker.

**Ghiesbreghtia** Roezl (pro gen.), Reiseberichte aus Mexico, *Gartenflora* **10**(4): 122. 1861 nom. illeg. (Art. 52.1).

*Etym*: Named for Auguste Boniface GHIESBREGHT (1810-1893).

*T*: *Ghiesbreghtia mollis* Roezl [= *Agave attenuata* Salm-Dyck].

*Ref*: *Agave* L.

**Gloriosae** A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 167. (Oct-Nov) 1915 nom inval. (Art. 22.2).

*Etym*: Superb.

*T*: *Agave fuerstenbergii* Jacobi = *Agave americana* L. Autotype (Art. 10.2). The only included species.

*Syn*: *Agave* L. ser. *Agave*.



**Guatemalenses** Trel. (pro infragen. *Agave* L.), *The Agaveae of Guatemala, Transactions of the Academy of Science of St. Louis* 23(3): 134. (15 Jul) 1915.

*Etym*: Guatemalan. From the name of the country of origin.

*T*: Not cited.

*LT*: *Agave hurteri* Trel. Designated by Ullrich (1992: 215).

**Guatemalenses** A.Berger (pro subser. *Agave* L.), *Die Agaven*: 22, 181, 199. (Oct-Nov) 1915.

*Etym*: Based on the name of an included species.

*T*: *Agave guatemalensis* A.Berger [= *Agave seemanniana* Jacobi]. Autotype (Art. 22.6).

*Obs*: Rank indicated on p.199. Not to be confused with *Guatemalenses* Trel. (1915).

**Guatemalenses** (Trel.) B.Ullrich (pro sect. *Agave* L.), *Wer ist der Autor von Agave wercklei? (2), Kakteen und andere Sukkulente* 43(9): 215. (Sep) 1992.

*Bas*: *Guatemalenses* Trel. (1915, pro infragen. *Agave* L.).

**Herbaceae** Salm-Dyck (pro infragen. *Agave* L.), *Index plantarum succulentarum in horto Dyckensi cultarum. Anno 1829*: 4. 1829 nom. nud.

*Etym*: Grass-like, or not woody.

*Obs*: Two species belonging to subgen. *Manfreda*.

**Herbaceae** Salm-Dyck (pro infragen. *Agave* L.), *Hortus Dyckensis*: 7. 1834 nom. nud.

*Etym*: Grass-like, or not woody.

*Obs*: Three species belonging to subgen. *Manfreda*.

**Herbaceae** Salm-Dyck (pro sect. *Agave* L.), *Bemerkungen über die Gattungen Agave und Fourcroya, Bonplandia* 7(7): 88 [or 4], 96 [or 13]. (15 Apr) 1859.

*Etym*: Grass-like, or not woody.

*T*: Not cited.

*Obs*: Three species belonging to subgen. *Manfreda*. Rank indicated on p.96. Terracciano included only *Agave maculosa* Hook.

**Herbaceae** (Salm-Dyck) A.Terracc. (pro subsect. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-8, 11. (Jun) 1885.

*Bas*: *Herbaceae* Salm-Dyck (1859, pro sect. *Agave* L.)

**Heteracanthae** Salm-Dyck (pro sect. *Agave* L.), Bemerkungen über die Gattungen *Agave* und *Fourcroya*, *Bonplandia* 7(7): 88 [or 4], 96 [or 13]. (15 Apr) 1859.

*Etym*: Based on the name of an included species.

*T*: *Agave heteracantha* Zucc. Autotype (Art. 22.6).

*Obs*: Five species with horny leaf margins. Rank indicated on p.96.

**Hiemiflorae** Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 268, 269, 465. 1982 nom. inval. (Art. 39.1).

*T*: *Agave hiemiflora* Gentry.

*Obs*: Rank indicated on p. 269. Includes the type of subser. *Multiflorae* A.Berger (1915).

×**Hybridae** A.Berger (pro infranothogen. *Agave* L. below subsect.), *Die Agaven*: 39. (Oct-Nov) 1915.

*Etym*: Hybrid.

*T*: *Agave* ×*beguinii* A.Berger. Autotype (Art. 10.2). The only included species.

**Inaguenses** Trel. (pro infragen. *Agave* L. as “group”), *Agave in the West Indies*, *Memoirs of the National Academy of Sciences* 11: 9, 42. 1913.

*Etym*: Named for Inagua & Little Inagua, Bahamas, from where they originate.

*T*: *Agave nashii* Trel.

**Inaguenses** (Trel.) A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 24, 28, 268. (Oct-Nov) 1915.

*Bas*: *Inaguenses* Trel. (1913, pro infragen. *Agave* L.).

**Inermes** Salm-Dyck (pro sect. *Agave* L.), Bemerkungen über die Gattungen *Agave* und *Fourcroya*, *Bonplandia* 7(7): 88 [or 4], 96 [or 13]. (15 Apr) 1859.

*Etym*: Spineless. A reference to the naked or filiferous leaf margins.

*T*: Not cited.

*Obs*: Six species divided into two unnamed subgroups according to whether the leaves are lanceolate or subulate. Rank indicated on p.96. Originally included the type of *Littaea* Tagl., but the circumscription was later narrowed to only three species, excluding *Littaea geminiflora* Tagl., which he placed in his new section *Juncineae* (1861: 182).

**Integrae** A.Berger (pro infragen. *Agave* L. below subsect.), *Die Agaven*: 39. (Oct-Nov) 1915.

*Etym*: Entire. A reference to the leaf margins being without teeth or filaments.

*T*: *Agave bakeri* Hook.f. ex W.Watson nom.illeg. [= *Agave gilbertii* A.Berger.] Autotype (Art. 10.2). The only included species.

**Integrifoliae** Baker, (pro infragen. *Agave* L. as “group” below rank of ser.), The genus *Agave*, *The Gardeners' Chronicle*, Ser. 2 4(2): 808. (29 Dec) 1877.

*Etym*: Entire-leaved.

*T*: Not cited.

**Integrifoliae** (Baker) A.Terracc., (pro subser. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-9, 36. (Jun) 1885.

*Bas*: *Integrifoliae* Baker (1877, pro infragen. *Agave* L.).

*Obs*: Rank not indicated but inferred from the systematic arrangement of the subseries of subsect. *Emarginatae*, under which ranks were stated.

**Juncineae** Salm-Dyck (pro sect. *Agave* L.), Bemerkungen über die Familie der Agaveen, *Wochenschrift des Vereines zur Beförderung des Gartenbaues in den Königlich Preussischen Staaten für Gärtnerei und Pflanzenkunde* 2(23): 180, 182. (6 Jun) 1861.

*Etym*: Rush-like.

*T*: Not cited.

*Obs*: Includes the type of *Littaea* Tagl.

**Keratacanthae** Jacobi (pro infragen. *Agave* L.), Versuch zu einer systematischen Ordnung der Agaveen. *Hamburger Garten- und Blumenzeitung* 20: 465, 499. 1864.

*Etym*. Horny-spined.

*T*: Not cited.

**Leichtlinia** H.Ross (pro gen.), *Delectus seminum in horto botanico Panormitanus*: 48. 1893.

*Etym*: Named for M. LEICHTLIN, a botany student at Palermo University who had successfully propagated this plant.

*T*: *Agave protuberans* Engelm. ex Baker [= *Agave guttata* Jacobi & C.D.Bouché]. Autotype (Art. 10.2). The only included species.

*Ref*: *Agave* L.

**Littaea** Tagl. (pro gen.), Storia e descrizione della *Littaea geminiflora*, *Bibliotheca Italiana* **1**: 106-108. (Jan) 1812. [separate 1816: 9-11]

*Etym*: Named to honour Antonio LITTA VISCONTI ARESE (1748-1820), the first Duke of Litta, in whose Milan garden *Littaea geminiflora* first flowered.

*T*: *Littaea geminiflora* Tagl. [= *Agave geminiflora* (Tagl.) Ker Gawl.] Autotype (Art. 10.2). The only included species.

**Littaea** (Tagl.) M.Roem. (pro subgen. *Agave* L.), *Familiarum naturalium regni vegetabilis synopses monographicae* **4**: 283. (May-Oct) 1847.

*Bas*: *Littaea* Tagl. (1812, pro gen.).

**Littaea** (Tagl.) Benth. (pro sect. *Agave* L.), in Bentham, G., & Hooker, J., *Genera plantarum* **3**(2): 733 (14 Apr). 1883 nom. illeg. (Art. 52.1).

*Bas*: *Littaea* Tagl. (1812, pro gen.).

*Syn*: *Agave* sect. *Geminiflorae* Engelm. (1875).

**Loriformes** Jacobi (pro infragen. *Agave* L.), Versuch zu einer systematischen Ordnung der Agaveen. *Hamburger Garten- und Blumenzeitung* **20**: 502, 509-510. 1864.

*Etym*. Strap-shaped. A reference to the flattened leaves.

*T*: Not cited.

**Macracanthae** Salm-Dyck (pro sect. *Agave* L.), Bemerkungen über die Gattungen *Agave* und *Fourcroya*, *Bonplandia* **7**(7): 88 [or 4], 96 [or 13]. (15 Apr) 1859 nom. inval. (Art. 22.2).

*Etym*: Based on the name of an included species.

*T*: *Agave macracantha* Zucc. Autotype (Art. 22.6).

*Obs*: Includes *Agave americana*, the type of the genus. Divided into two unnamed subgroups. Rank indicated on p.96.

*Ref*: *Agave* L. sect. *Agave*.

**Manfreda** Salisb. (pro gen.), *The genera of plants*: 78. 1866.

*Etym*: Probably named for MANFREDUS, of Poggio Imperiale at Poggibonsi near Siena, Tuscany, Italy, an apothecary & author from antiquity.

*T*: *Agave virginica* L.

*Obs*: Includes the type of *Agave* infragen. *Chondracanthae* Jacobi (1864).

***Manfreda*** (Salisb.) Baker (pro subgen. *Agave* L.), *The Gardeners' Chronicle*, Ser. 2 **4**: 171. (10 Feb) 1877.

*Bas*: *Manfreda* Salisb. (1866, pro gen.).

***Manfreda*** (Salisb.) Benth. (pro sect. *Agave* L.), in Bentham, G., & Hooker, J., *Genera plantarum* **3**(2): 733 (14 Apr). 1883.

*Bas*: *Manfreda* Salisb. (1866, pro gen.).

×***Mangave*** D.Klein (pro nothogen.), ×*Mangave* ‘Bloodspot’ und ×*Mangave* ‘Macho Mocha’, *Kakteen und andere Sukkulente* **61**(8): 212. (Aug) 2010.

*Par*: *Agave* L. × *Manfreda* Salisb.

*Obs*: A name that can only be applied when *Agave* L. and *Manfreda* Salisb. are treated as distinct genera.

*Ref*: *Agave* L.

***Marginatae*** Jacobi (pro infragen. *Agave* L.), Versuch zu einer systematischen Ordnung der Agaveen. *Hamburger Garten- und Blumenzeitung* **20**: 499, 504-507. 1864.

*Etym*. Margined. A reference to the horny leaf margins.

*T*: Not cited.

*LT*: *Agave lophantha* Schiede nom.nud. [= *Agave univittata* Haw.]. Designated by Gentry (1982: 124).

*Obs*: Also Baker (1877, pro infragen. *Agave* L. as “Group”).

***Marginatae*** (Jacobi) A.Terracc. (pro subsect. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-7, 30. (Jun) 1885.

*Bas*: *Marginatae* Jacobi (1864, pro infragen. *Agave* L.)

***Marginatae*** (Jacobi) Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 62, 124-125. 1982.

*Bas*: *Marginatae* Jacobi (1864, pro infragen. *Agave* L.)

*Obs*: Rank indicated on p. 62. Reference to the basionym is on p.125.

***Marmoratae*** A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 25, 28, 269. (Oct-Nov) 1915.

*Etym*: Based on the name of an included species.

*T*: *Agave marmorata* Roezl. Autotype (Art. 22.6).

**Marmoratae** (A.Berger) Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 268, 269, 507. 1982.

*Bas*: *Marmoratae* A.Berger (1915, pro ser. *Agave* L.).

*Obs*: Rank indicated on p. 269.

**Micracanthae** Salm-Dyck (pro sect. *Agave* L.), Bemerkungen über die Gattungen *Agave* und *Fourcroya*, *Bonplandia* **7**(7): 88 [or 4], 96 [or 13]. (15 Apr) 1859.

*Etym*: Based on the name of an included species.

*T*: *Agave micracantha* Salm-Dyck [= *Agave mitis* Mart.]. Autotype (Art. 22.6).

*Obs*: Divided into two unnamed subgroups. Rank indicated on p.96.

**Multiflorae** A.Berger (pro subser. *Agave* L.), *Die Agaven*: 22, 181, 183. (Oct-Nov) 1915.

*Etym*: Based on the name of an included species.

*T*: *Agave multiflora* Tod. [= *Agave potatotum* Zucc.] Autotype (Art. 22.6).

*Obs*: Rank indicated on p.183.

**Nizandensae** B.Ullrich (pro ser. *Agave* L.), De taxonomische Rangschikking van *Agave nizandensis* Cutak, *Succulenta* **70**(4): 91. (Apr) 1991.

*Etym*: Based on the name of an included species.

*T*: *Agave nizandensis* Cutak.

**Nizandensae** (B.Ullrich) B.Ullrich (pro sect. *Agave* L.), Nieuwe combinatie, *Succulenta* **70**(6): 144. (Jun) 1991.

*Bas*: *Nizandensae* B.Ullrich (1991, pro ser. *Agave* L.)

**Oblongatae** A.Berger (pro infragen. *Agave* L. below subsect.), *Die Agaven*: 39. (Oct-Nov) 1915.

*Etym*: Based on the name of an included species.

*T*: *Agave oblongata* Jacobi = *Agave mitis* Mart. Autotype (Art. 22.6).

*Obs*: Includes the type of sect. *Micracanthae* Salm-Dyck (1859).

***Paniculatae*** Engelm. (pro sect. *Agave* L.), Notes on *Agave*, *Transactions of the Academy of Science of St. Louis* 3(3): 297, 309. (27 Dec) 1875 nom. inval. (Art. 22.2).

*Etym*: Paniculate.

*T*: Not cited, but includes the type of the genus.

*Ref*: *Agave* L. sect. *Agave*.

***Parryanae*** Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 268, 269, 520. 1982 nom. inval. (Art. 39.1).

*T*: *Agave parryi* Engelm.

*Obs*: Rank indicated on p. 269.

***Parviflorae*** Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 62, 195. 1982 nom. inval. (Art. 39.1).

*Etym*: Based on the name of an included species.

*T*: *Agave parviflora* Torr.

*Obs*: Rank indicated on p. 62. Lacks a Latin description.

***Pendulae*** A.Berger (pro infragen. *Agave* L. below subsect.), *Die Agaven*: 39. (Oct-Nov) 1915.

*Etym*: Hanging. A reference to the arching inflorescence.

*T*: *Agave sartorii* K.Koch [= *Agave pendula* Schnittspahn]. Autotype (Art. 10.2). The only included species.

***Pericamptagave*** A.Berger (pro sect. *Agave* L.), *Die Agaven*: 22-23, 27, 85. (Oct-Nov) 1915.

*Etym*: Turn around agave. From the manner in which the perianth segments surround the base of the stamens.

*T*: Not cited.

*Obs*: Includes *Marginatae* Baker pro parte.

***Polianthes*** L. (pro gen.), *Species plantarum* 1: 316. (1 May) 1753 & *Genera plantarum* (ed.5): 148. (Aug) 1754 [Both treated as having been published simultaneously on 1 May 1754 (Art. 13.4)].

*Etym*: Dull white flowered.

*T*: *Polianthes tuberosa* L. [= *Agave polianthes* Thiede & Egli] Autotype (Art. 10.2). The only included species.

*Ref*: *Agave* L.

***Polycephalae*** Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 62, 216. 1982 nom. inval. (Art. 39.1).

*Etym*: Many-headed.

*T*: *Agave celsii* Hook. [= *Agave mitis* Mart.].

*Obs*: Rank indicated on p. 62. Lacks a Latin description. Based on the same type as *Oblongatae* A.Berger (1915). Includes the type of infragen. *Pendulae* A.Berger (1915).

***Pothos*** Adans. (pro gen.), *Familles des plantes* 2: 57. (Jul-Aug) 1763 nom. illeg. (Art. 53.1).

*Etym*: Desirable.

*T*: Not cited.

*Ref*: *Agave* L.

***Prochnyanthes*** S.Watson (pro gen.), List of plants collected by Dr. Edward Palmer in the State of Jalisco, Mexico, in 1886, *Proceedings of the American Academy of Arts and Sciences* 22: 457 (25 Jun) 1887.

*Etym*: Not explained. Perhaps named for its succession of flowers.

*T*: *Prochnyanthes viridescens* S.Watson [= *Agave bulliana* (Baker) Thiede & Eggl]. Autotype (Art. 10.2). The only included species.

*Ref*: *Agave* L.

***Pseudobravoa*** Rose (pro gen.), A proposed rearrangement of the suborder *Agaveae*, Studies of Mexican and Central American plants – No. 2., *Contributions from the U.S. National Herbarium* 5(4): 153, 155. (31 Oct) 1899.

*Etym*: False *Bravoa*.

*T*: *Bravoa densiflora* B.L.Rob. & Fernand [= *Agave confertiflora* Thiede & Eggl].

*Ref*: *Agave* L.

***Pseudomanfreda*** (Salisb.) Rose (pro subgen. *Agave* L.), A proposed rearrangement of the suborder *Agaveae*, Studies of Mexican and Central American plants – No. 2., *Contributions from the U.S. National Herbarium* 5(4): 153-154. (31 Oct) 1899.

*Etym*: False *Manfreda*.

*T*: Not cited.



**Rigidae** Baker (pro infragen. *Agave* L. as “group” below rank of ser.), *The Gardeners' Chronicle*, Ser. 2 **4**(1): 171. (10 Feb) 1877. Also **4**(2): 264. 1877; **4**(2): 808. (29 Dec) 1877.

*Etym*: Based on the name of an included species.

*T*: Should be *Agave rigida* Mill., the autotype (Art. 22.6), but that is a confused name of uncertain application. A type citation for *Rigidae* Baker appeared on p.264: “This is a considerable group, of which *A. lurida* and *ixtli* may be regarded as the type.”

Lectotypification must therefore be chosen from these.

*LT*: *Agave ixtli* Karw. [= *Agave angustifolia* Haw.]. Designated by Gentry (1982: 551).

**Rigidae** (Baker) A.Terracc., (pro subser. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-9, 42-43. (Jun) 1885.

*Bas*: *Rigidae* Baker (1877, pro infragen. *Agave* L.)

*Obs*: Rank not explicitly indicated but inferred from the systematic arrangement of the subseries of subsect. *Emarginatae*, whose ranks were explicitly stated.

**Rigidae** (Baker) A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 24, 26, 226. (Oct-Nov) 1915.

*Bas*: *Rigidae* Baker (1877, pro infragen. *Agave* L.)

**Rigidae** (Baker) Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 267, 269, 551. 1982.

*Bas*: *Rigidae* Baker (1877, pro infragen. *Agave* L.)

*Obs*: Rank indicated on p. 269. The basionym was cited as that of Berger, but this is taken to be an error of citation not affecting the validity.

**Robynsia** Drapiez (pro gen.), in Lemaire (ed.), *L'Horticulteur universel* **2**: 127, 231. 1841 nom. rej. (Art. 56.1).

*Etym*: Named for Mr. ROBYNS, Brussels.

*T*: *Robynsia geminiflora* (Tagl.) Drapiez [= *Agave geminiflora* (Tagl.) Ker Gawl.] Autotype (Art. 10.2). The only included species.

*Syn*: *Littaea* Tagl.

*Obs*: Name rejected in favour of *Robynsia* Hutch. nom. cons. (1931).

*Ref*: *Agave* L.

**Runyonia** Rose (pro gen.), *Addisonia* **7**(3): 39-40, t.244. (4 Dec) 1922.

*Etym*: Named for Robert RUNYON (1881-1968), who gathered this plant in 1922.

*T*: *Runyonia longiflora* Rose [= *Agave longiflora* (Rose) G.D.Rowley]. Autotype (Art. 10.2). The only included species.

*Ref*: *Agave* L.

**Salmianae** A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 24, 27, 128. (Oct-Nov) 1915.

*Etym*: Based on the name of an included species.

*T*: *Agave salmiana* Otto ex Salm-Dyck. Autotype (Art. 22.6).

*Obs*: Includes *Semimarginatae* Jacobi pro parte, & *Submarginatae* Baker pro parte.

**Salmianae** (A.Berger) Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 267, 269, 594. 1982.

*Bas*: *Salmianae* A.Berger (1915, pro ser. *Agave* L.).

*Obs*: Rank indicated on p. 269.

**Sarcanthagave** A.Berger (pro subsect. *Agave* L.), *Die Agaven*: 39. (Oct-Nov) 1915.

*Etym*: Fleshy-flowered agave.

*T*: Not cited.

**Schoenagave** A.Berger (pro sect. *Agave* L.), *Die Agaven*: 22-23, 27, 78. (Oct-Nov) 1915.

*Etym*: Rush agave. From the rush-like form of the leaves.

*T*: Not cited.

*Obs*: Includes *Juncineae* Jacobi & *Striatae* Baker pro parte.

**Scolymoides** A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 25, 28, 181. (Oct-Nov) 1915.

*Etym*: *Scolymus*-like. A reference to the similarity of the leaves to those of the Spanish Oyster Plant.

*T*: Not cited.

**Serrulatae** Baker (pro infragen. *Agave* L. as “group” below rank of ser.), *The genus Agave, The Gardeners' Chronicle*, Ser. 2 4(2): 748. 1877; 4(2): 808. (29 Dec) 1877.

*Etym*: Serrulate.

*T*: *Agave pruinosa* Lem. [= *A. attenuata* Salm-Dyck]. Autotype (Art. 10.2). The only included species.

**Singuliflorae** Engelm. (pro sect. *Agave* L.), *Notes on Agave, Transactions of the Academy of Science of St. Louis* 3(3): 296, 300-301. (15 Dec) 1875.

*Etym*: Single-flowered. A reference to the flowers being borne singly from a short pedicel located in the axils of bracts.

*T*: Not cited.

*Obs*: Includes the type of *Manfreda* Salisb. (1864), to which it more or less equates.

***Sisalanae*** Trel. (pro infragen. *Agave* L. as “group”), *Agave* in the West Indies, *Memoirs of the National Academy of Sciences* 11: 9, 47. 1913 nom. illeg. (Art. 52.1).

*Etym*: Based on sisal, the name given to the fibre made from the sisal agave. The name sisal originated in the mid-19C from the name of the port of Sisal in Yucatan.

*T*: *Agave angustifolia* Haw.

*Syn*: *Agave* infragen. *Rigidae* Baker (1877).

*Obs*: Based on the same type as *Rigidae* Baker. The three species that were included by Trelease are all naturalised from cultivated origin.

***Sisalanae*** Trel. ex A.Berger (pro subser. *Agave* L.), *Die Agaven*: 22, 24, 26, 230. (Oct-Nov) 1915 nom. illeg. (Art. 52.1).

*Rep.Syn*: *Sisalanae* Trel. (1913, pro infragen. *Agave* L.).

*Syn*: *Agave* subser. *Rigidae* (Baker) A.Terracc.

***Sisalanae*** (Baker) Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 268, 269, 619. 1982.

*Rep.Syn*: *Sisalanae* Trel. (1913, pro infragen. *Agave* L.).

*Syn*: *Rigidae* (Baker) Gentry (1982).

*Obs*: Rank indicated on p. 269.

***Spicatae*** A.Terracc. (pro subsect. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-8, 12. (Jun) 1885.

*Etym*: Spicate.

*T*: Not cited.

***Striatae*** Baker, (pro infragen. *Agave* L. as “group” below rank of ser.), The genus *Agave*, *The Gardeners' Chronicle*, Ser. 2 4(1): 171. (10 Feb) 1877. Also 4(2): 556. (3 Nov) 1877; 4(2): 808. (29 Dec) 1877.

*Etym*: Based on the name of an included species.

*T*: *Agave striata* Zucc. Autotype (Art. 22.6).

***Striatae*** (Baker) A.Terracc., (pro subser. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-9, 15. (Jun) 1885.

*Bas*: *Striatae* Baker (1877, pro infragen. *Agave* L.).

*Obs*: Rank indicated on p.6 & 8.

***Striatae*** (Baker) Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 62, 235. 1982.

*Bas*: *Striatae* Baker (1877, pro infragen. *Agave* L.).

*Obs*: Rank indicated on p. 62.

***Subcoriaceae*** Jacobi (pro infragen. *Agave* L.), Versuch zu einer systematischen Ordnung der Agaveen. *Hamburger Garten- und Blumenzeitung* 20: 501, 508-509. 1864.

*Etym*. Almost leathery. A reference to the leaf epidermis.

*T*: Not cited.

***Subcarinatae*** Jacobi (pro infragen. *Agave* L.), Versuch zu einer systematischen Ordnung der Agaveen. *Hamburger Garten- und Blumenzeitung* 20: 501, 509-510. 1864.

*Etym*. Almost keeled. A reference to the triangular leaf cross-section shape.

*T*: Not cited.

***Subintegriifoliae*** Baker (pro infragen. *Agave* L. as “group” below rank of ser.), The genus *Agave*, *The Gardeners’ Chronicle*, Ser. 2 4(1): 171. (10 Feb) 1877.

*Etym*: Almost entire leaves. i.e. leaf margins not thorny, but may be minutely serrulate.

*T*: Not cited.

*Obs*: Includes *A. attenuata* & *A. ellemeetiana*. Taxon later abandoned in favour of *Attenuatae* Baker (1877).

***Submarginatae*** Baker, (pro infragen. *Agave* L. as “group” below rank of ser.), The genus *Agave*, *The Gardeners’ Chronicle*, Ser. 2 4(1): 171. (10 Feb) 1877. Also 4(1): 717. (9 Jun) 1877; 4(2): 808. (29 Dec) 1877.

*Etym*: Almost margined.

*T*: Not cited.

***Submarginatae*** (Baker) A.Terracc. (pro subsect. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-7, 48. (Jun) 1885.

*Bas*: *Submarginatae* Baker (1877, pro infragen.).

**Tequilanae** Trel. (pro infragen. *Agave* L.), The *Agaveae* of Guatemala, *Transactions of the Academy of Science of St. Louis* **23**(3): 134. (15 Jul) 1915 nom. illeg. (Art. 52.1).

*Etym*: Tequilan.

*T*: *Agave donnell-smithii* Trel. [= *Agave vivipara* L.]. Autotype (Art. 10.2). The only included species.

*Syn*: *Agave* L. infragen. *Viviparae* Baker (1877).

**Tequilanae** A. Berger (pro subser. *Agave* L.), *Die Agaven*: 22, 230, 250. (Oct-Nov) 1915.

*Etym*: Based on the name of an included species.

*T*: *Agave tequilana* F.A.C. Weber. Autotype (Art. 22.6).

*Obs*: Rank indicated on p.250. Not to be confused with *Tequilanae* Trel. (1915).

**Tuberosa** Heist. ex Fabr., *Enumeratio methodica plantarum*: 2-3. 1759 nom. illeg. (Art. 52.1).

*Etym*: Tuberosus.

*T*: *Polianthes tuberosa* L. [= *Agave polianthes* Thiede & Egli]. Autotype (Art. 10.2). The only included species.

*Ref*: *Agave* L.

**Umbelliflorae** Trel. (pro infragen. *Agave* L. as “group”), The agaves of Lower California, *Missouri Botanical Garden Annual Report* **22**: 40, 44. (14 Feb) 1912.

*Etym*: Paniculate.

*T*: Not cited.

*LT*: *Agave shawii* Engelm. Designated by Gentry (1982: 635).

**Umbelliflorae** (Trel.) A. Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 24, 27, 170. (Oct-Nov) 1915.

*Bas*: *Umbelliflorae* Trel. (1913, pro infragen. *Agave* L.).

**Umbelliflorae** (Trel.) Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 268, 269, 619. 1982.

*Bas*: *Umbelliflorae* Trel. (1912, pro infragen. *Agave* L.).

*Obs*: Rank indicated on p. 269.

**Urceolatae** Gentry (pro sect. *Agave* L.), *Agaves of continental North America*: xii, 62, 251. 1982 nom. inval. (Art. 39.1).

*Etym*: Urn-shaped. A reference to the flower form.

*T*: *Agave utahensis* Engelm.

*Obs*: Rank indicated on p. 62. Lacks a Latin description.

**Vicinae** Thiede (pro infragen. *Agave* L.), in Egli (ed.), *Illustrated handbook of succulent plants: Monocotyledons*: 11. 2001 nom. inval. (Art. 41.5) & illeg. (Art. 52.1).

*Etym*: Based on the name of an included species.

*T*: *Agave vicina* Trel.

*Obs*: Invalidly published as a replacement for *Viviparae* Trel. non Baker but lacking basionym reference. Trelease's type of *Viviparae* was in any case the same as that of Baker's, so Trelease had not in fact created a different taxon.

**Viviparae** Baker, (pro infragen. *Agave* L. as "group" below rank of ser.), *The genus Agave, The Gardeners' Chronicle, Ser. 2* 4(2): 780. (22 Dec) 1877; 4(2): 808. (29 Dec) 1877.

*Etym*: Based on the name of an included species.

*T*: *Agave vivipara* L. Autotype (Art. 22.6).

**Viviparae** (Baker) A.Terracc., (pro subser. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-9, 46. (Jun) 1885.

*Bas*: *Viviparae* Baker (1877, pro infragen. *Agave* L.).

*Obs*: Rank not indicated but inferred from the systematic arrangement of the subseries of subsect. *Emarginatae*, whose ranks were explicitly stated.

**Viviparae** (Baker) A.Berger (pro ser. *Agave* L.), *Die Agaven*: 22, 25, 26, 223. (Oct-Nov) 1915.

*Bas*: *Viviparae* Baker (1877, pro infragen. *Agave* L.).

**Xysmagave** A.Berger (pro sect. *Agave* L.), *Die Agaven*: 22-23, 26, 68. (Oct-Nov) 1915.

*Etym*: Fiber agave. A reference to the filamentous leaf margins.

*T*: Not cited.

*Obs*: Includes *Marginatae* Jacobi & *Filiferae* Baker.

***Yuccaefoliae*** Baker, (pro infragen. *Agave* L. as “group” below rank of ser.), The genus *Agave*, *The Gardeners’ Chronicle*, Ser. 2 4(2): 781. (22 Dec) 1877; 4(2): 808. (29 Dec) 1877.

*Etym*: Based on the name of an included species.

*T*: *Agave yuccaefolia* DC. [= *Agave spicata* Cav.]. Autotype (Art. 22.6).

***Yuccaefoliae*** (Baker) A.Terracc., (pro subser. *Agave* L.), *Primo contributo ad una monografia delle Agave*: 6-7, 9, 14. (Jun) 1885.

*Bas*: *Yuccaefoliae* Baker (1877, pro infragen. *Agave* L.).

*Obs*: Rank indicated on p.6 & 8.

***Yuccaefoliae*** (Baker) Breitung (pro sect. *Agave* L.), Cultivated and native agaves in the southwestern United States, *Cactus and Succulent Journal* (US) 32(6): 181. (Nov-Dec) 1960 nom. inval. (Art. 41.5).

*Bas*: *Yuccaefoliae* Baker (1877, pro infragen. *Agave* L.).

*Obs*: Lacking basionym reference.

***Yuccaefoliae*** (Baker) B.Ullrich (pro sect. *Agave* L.), La questione della priorità di *Agave spicata* Cavanilles su *Agave yuccaefolia* F.Delaroche in Redouté, *Piante Grasse* 16(1): 29. (Jan-Mar) 1996.

*Bas*: *Yuccaefoliae* Baker (1877, pro infragen. *Agave* L.).

***Yuccoideae*** Baker, (pro ser. *Agave* L.), The genus *Agave*, *The Gardeners’ Chronicle*, Ser. 2 4(1): 171. (10 Feb) 1877.

*Etym*: Yucca-like.

*T*: Not cited.

*Obs*: Name proposed simultaneously with *Flexiles* Baker for the same taxon, but both are valid under Art. 36.2. They were later segregated, and this taxon became *Yuccaefoliae* Baker (1877).

**Type species & their homotypic taxa: A checklist**

(valid & legitimate names only)

***Agave americana* L.**

1753 (LT 1923): *Agave* L.

***Agave angustifolia* Haw.**

1877 (LT 1982): *Rigidae* Baker (infragen.)

1885: *Rigidae* (Baker) A.Terracc. (subser.)

1915: *Rigidae* (Baker) A.Berger (ser.)

1982: *Rigidae* (Baker) Gentry (sect.)

***Agave antillarum* Descourt.**

1913: *Antillanae* Trel. (infragen.)

1915: *Antillanae* (Trel.) A.Berger (ser.)

***Agave applanata* K.Koch**

1912: *Applanatae* Trel. (infragen.)

1915: *Applanatae* (Trel.) A.Berger (ser.)

***Agave attenuata* Salm-Dyck**

1861: *Ghiesbreghtia* Roezl (gen.)

1877: *Attenuatae* Baker (infragen.)

1877: *Serrulatae* Baker (infragen.)

1885: *Attenuatae* (Baker) A.Terracc. (subser.)

***Agave aurea* Brandege**

1912 (LT 1982): *Campaniflorae* Trel. (infragen.)

1915: *Campaniflorae* (Trel.) A.Berger (ser.)

1982: *Campaniflorae* (Trel.) Gentry (sect.)

***Agave bahamana* Trel.**

1913: *Bahamanae* Trel. (infragen.)

1915: *Bahamanae* (Trel.) A.Berger (ser.)

***Agave* ×*beguinii* A.Berger**

1915: ×*Hybridae* A.Berger (infranothogen.)

***Agave bulliana* (Baker) Thiede & Egli**

1887: *Prochnyanthes* S. Watson (gen.)

***Agave chiapensis* Jacobi**

1915: *Chiapenses* A.Berger (infragen.)

***Agave confertiflora* Thiede & Egli**

1899: *Pseudobravo* Rose (gen.)

***Agave datylio* Simon ex F.A.C.Weber**

1912: *Datylion*es Trel. (infragen.)

1915: *Datylion*es (Trel.) A.Berger (ser.)

***Agave deserti* Engelm.**

1912 (LT 1982): *Deserticolae* Trel. (infragen.)

1915: *Deserticolae* (Trel.) A.Berger (ser.)

1982: *Deserticolae* (Trel.) Gentry (sect.)

***Agave duplicata* Thiede & Egli**

1824: *Bravo*a Lexarza (gen.)



***Agave filifera*** Salm-Dyck

1877: *Filiferae* Baker (infragen.)

1885: *Filiferae* (Baker) A.Terracc. (subser.)

***Agave geminiflora*** (Tagl.) Ker Gawl.

1812: *Littaea* Tagl. (gen.)

1847: *Littaea* (Tagl.) M.Roem. (subgen.)

1875: *Geminiflorae* Engelm. (sect.)

***Agave gilbertii*** A.Berger

1915: *Integrae* A.Berger

***Agave guttata*** Jacobi & C.D.Bouché

1893: *Leichtlinia* H.Ross (gen.)

***Agave heteracantha*** Zucc.

1859: *Heteracanthae* Salm-Dyck (sect.)

***Agave hurteri*** Trel.

1915 (LT 1992): *Guatemalenses* Trel. (infragen.)

1992: *Guatemalenses* (Trel.) B.Ullrich (sect.)

***Agave inaequidens*** K.Koch

1915: *Crenatae* A.Berger (subser.)

1982: *Crenatae* (A.Berger) Gentry (sect.)

***Agave karatto*** Mill.

1913: *Caribaeae* Trel. (infragen.)

1915: *Caribaeae* (Trel.) A.Berger (ser.)

***Agave longiflora*** (Rose) G.D.Rowley

1922: *Runyonia* Rose (gen.)

***Agave lurida*** Aiton

1847: *Chloropsis* M.Roem. (subgen.)

***Agave marmorata*** Roezl

1915: *Marmoratae* A.Berger (ser.)

1982: *Marmoratae* (A.Berger) Gentry (sect.)

***Agave mitis*** Mart.

1859: *Micracanthae* Salm-Dyck (sect.)

1915: *Oblongatae* A.Berger (infragen.)

***Agave nashii*** Trel.

1913: *Inaguenses* Trel. (infragen.)

1915: *Inaguenses* (Trel.) A.Berger (ser.)

***Agave nizandensis*** Cutak

1991: *Nizandensae* B.Ullrich (ser.)

1991: *Nizandensae* (B.Ullrich) B.Ullrich (sect.)

***Agave obscura*** Schiede

1915: *Flaccifoliae* A.Berger (infragen.)

***Agave pendula*** Schnittspahn

1915: *Pendulae* A.Berger (infragen.)

***Agave polianthes*** Thiede & Eggli

1753: *Polianthes* L. (gen.)

***Agave potosina*** B.L.Rob. & Greenm.

1897: *Delpinoa* H.Ross (gen.)

***Agave salmiana*** Otto ex Salm-Dyck

1915: *Salmianae* A.Berger (ser.)

1982: *Salmianae* (A.Berger) Gentry (sect.)

***Agave seemanniana*** Jacobi

1915: *Guatemalenses* A.Berger (subser.)

***Agave shawii*** Engelm.

1912 (LT 1982): *Umbelliflorae* Trel. (infragen.)

1915: *Umbelliflorae* (Trel.) A.Berger (ser.)

1982: *Umbelliflorae* (Trel.) Gentry (sect.)

***Agave spicata*** Cav.

1877: *Yuccaefoliae* Baker (infragen.)

1885: *Yuccaefoliae* (Baker) A.Terracc. (subser.)

1996: *Yuccaefoliae* (Baker) B.Ullrich (sect.)

***Agave striata*** Zucc.

1877: *Striatae* Baker (infragen.)

1885: *Striatae* (Baker) A.Terracc. (subser.)

1982: *Striatae* (Baker) Gentry (sect.)

***Agave tecta*** Trel.

1915: *Atrovirentes* Trel. (infragen.)

***Agave tequilana*** F.A.C.Weber

1915: *Tequilanae* A.Berger (subser.)

***Agave univittata*** Haw.

1864 (LT 1982): *Marginatae* Jacobi (infragen.)

1885: *Marginatae* (Jacobi) A.Terracc. (subsect.)

1982: *Marginatae* (Jacobi) Gentry (sect.)

***Agave vivipara*** L.

1877: *Viviparae* Baker (infragen.)

1885: *Viviparae* (Baker) A.Terracc. (subser.)

1915: *Viviparae* (Baker) A.Berger (ser.)

***Agave virginica*** L.

1866: *Manfreda* Salisb. (gen.)

1877: *Manfreda* (Salisb.) Baker (subgen.)

1883: *Manfreda* (Salisb.) Benth. (sect.)

***Agave wercklei*** F.A.C.Weber ex Wercklé

1915: *Costaricenses* A.Berger (subser.)

***Agave willdingii*** Tod.

1913: *Antillares* Trel. (infragen.)

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