

LYONIA

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BIBLIOGRAPHY OF THE LIVING CYCADS
(Annotated)

ROBERT W. READ and MARIE L. SOLT

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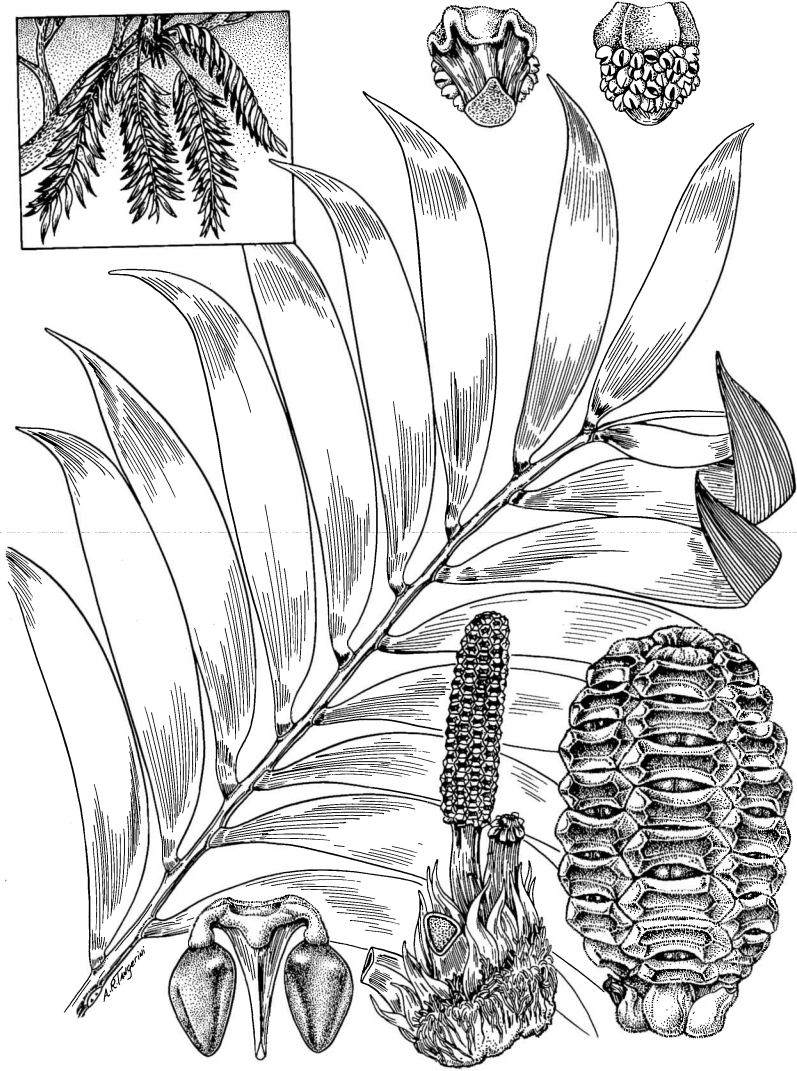
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Zamia pseudoparasitica Yates in Seemann. All are epiphytic in large trees of wet forest near the Continental Divide, in Coclé Prov. of Panamá. (Male foliage and cone [$\times .4$] from Read & Watson #84-45; female cone from Read, Desautels & Van Scriver #81-8b [$\times .4$].) Female sporophyll $\times \frac{1}{2}$; male sporophyll approximately $\times 2\frac{1}{2}$.

INTRODUCTION

Two unrelated circumstances regarding cycads have made the compilation of a bibliography important: (1) their potent toxicity has been the subject of numerous national and International Conferences since 1962*; and (2) all cycads are listed on Appendix II of the CITES list of rare and endangered species. Among the many groups of people that have used cycads throughout the world their toxicity was well known, and techniques have been developed to prepare the starch for "safe" consumption. However, as a result of studies on peoples and animals known to have consumed cycad products the finding of certain neurological difficulties, tumors and lesions of the liver, kidney, lungs and central nervous system has led to the conclusion that cycasin and other toxic glycosides of cycads are strong carcinogens and possibly figure prominently in certain idiopathic neurological diseases.

Cycads represent a plant form at once familiar to many but poorly understood by most. Frequently, and erroneously, referred to as "palmlike" or "fernlike", cycads are unrelated to any other group of living plants, so are described best, simply as cycads, with no allusion to anything else. They are ornamentals to horticulturists, famine food to many aborigines, poisonous to livestock, contain one of the most potent carcinogens known, and are of considerable evolutionary interest to scientists. Cycads are a unique assemblage of gymnosperm-like seed plants with pinnate fronds, reproductive structures mostly arranged in cones, and motile sperm, providing an important living link to the earliest of ancient seed plants. Cycads flourished about 150–200 million years ago but their ancestry is traced to the late Palaeozoic period (about 280 million years ago). The great abundance of cycad-like fossil leaves in rocks of the Mesozoic era led to the erroneous designation of the "Age of Cycads" but research has shown that the large majority of these leaves belong to another group of plants (Mamay 1976). Apparently much more numerous in the past, the Order Cycadales is now recognized as comprising only three families: Cycadaceae with but a single genus, *Cycas*; Stangeriaceae with its solitary genus, *Stangeria*; and Zamiaceae with eight genera: *Lepidozamia*, *Macrozamia*, *Encephalartos*, *Dioon*, *Microcycas*, *Ceratozamia*, *Zamia*, and *Bowenia*; and is restricted to relic populations in the tropics and subtropics of both hemispheres. (Fig. 1).

Cycads presently are regarded as primitive "gymnosperms" and are treated in botanical classification as the Order Cycadales in the Class Cycadopsida. A detailed account of the various systems of classification is

*Mostly published in the Proceedings of the Federation of American Societies for Experimental Biology, Bethesda, Md. 1962-. An extensive bibliography on cycad toxicity has been compiled by Dr. Marjorie Grant Whiting and will be published separately.

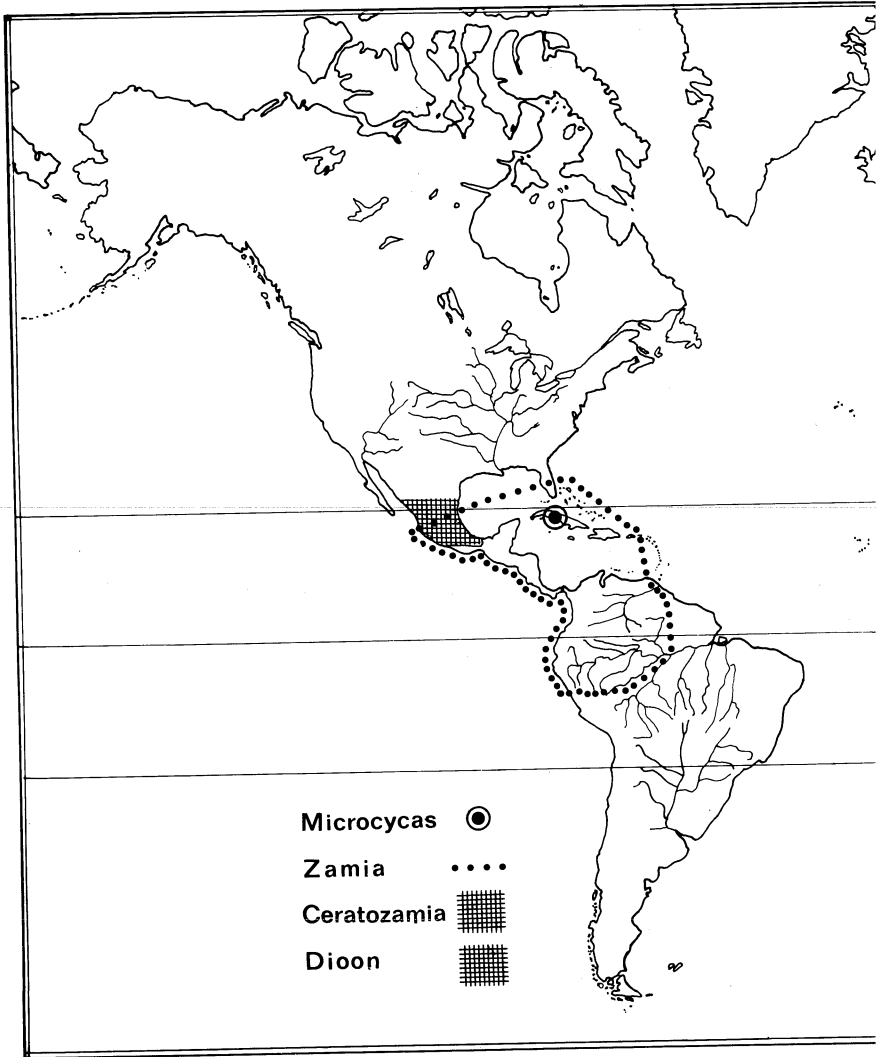
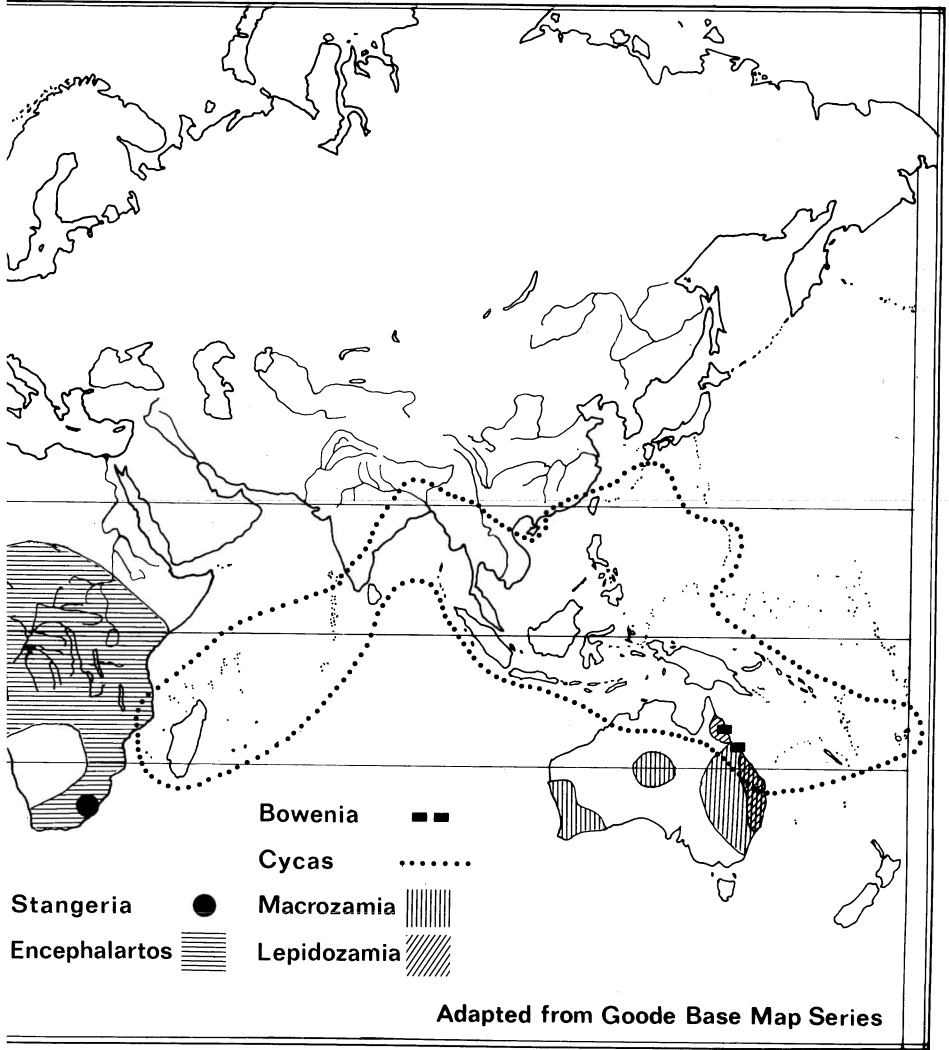


FIGURE 1. Distribution of the genera of living cycads (based on information from various sources).



given by Pant (1973: 14–26). He regards the cycads as the only living members of the Division Cycadophyta, which includes such fossil forms as the Pteridosperms (seed ferns), Pentoxylloids, and Cycadeoides. The fact that the naked ovules of plants in the genus *Cycas* are borne directly on obviously modified, reduced leaf-like structures in the manner of the extinct seed-ferns of the Carboniferous suggests that the genus *Cycas* is a remnant of an earlier evolutionary period.

According to Webster's New International Dictionary . . . (Second Edition, unabridged, 1959) the derivation of the name cycad, based on the genus *Cycas* of Linnaeus, is "Kykas, an error for Koikas, acc. pl. of Koix," a Greek name for the doum-palm of Egypt (*Hyphaene thebaica*) as used by Theophrastus. Just how the name came to be applied to a wholly distinct Asiatic plant is a mystery. The name in its present application originated with Linnaeus' publication of *Hortus Cliffortianus* in 1737, under the erroneous category "*Palmae*". *Cycas* was described for the first time on page 482, citing distribution in India, southern Asia, Japan, and America. Ten years later (1747) Linnaeus again treated the genus in his *Flora Zeylanica*, where the common name "Sagou" was cited. This is a name used by earlier writers for several plants which are used as sources of stem or seed starch.

Cycads are mostly terrestrial and arborescent with branched or unbranched aerial stems as in *Cycas*, or shrubby with a subterranean tuberous stem as in some *Zamia* species. One species, however, is truly epiphytic with a contorted thick stem nestled on tree branches among the moss and other epiphytic vegetation. Arborescent stems are covered by persistent leaf bases giving stems an appearance of being larger in diameter than they actually are. Seedlings produce a tuber-like tap root almost before the leaves are fully developed. (Fig. 2). Later, certain adventitious roots become apogeotropic and form coralloid masses bearing bacteria and blue-green algae. Cycad leaves are borne terminally and are mostly pinnate, but one genus, *Bowenia*, has bipinnate leaves. Reproductively, cycads are dioecious, producing either pollen-bearing or ovule-bearing modified leaves called sporophylls, which with the exception of the genus *Cycas* are aggregated in strobili (cones). Male sporophylls of *Cycas* are arranged in a cone as in all other genera. The cones are often brightly colored in the genus *Encephalartos*, or covered with a rusty tomentum as in *Zamia*. Many writers have noted the heating up of cycad cones during pollen production and receptivity. The seed coats of some cycads are also brightly colored.

Usually classified as gymnosperms, the ovules and seeds of cycads, like true gymnosperms, are naked. They are not enclosed within an ovary or fruit, hence it is inaccurate to refer to the seeds as "fruits" or "nuts". The fleshy or scaly, often brightly colored, covering of the seeds is derived from the integuments (Figs 3 & 4) of the ovule and not from a carpel or pistil as is the situation in flowering plants. An inner stony layer is not comparable to that of true "nuts". The bulk of the seed is a starchy endosperm containing the embryo.

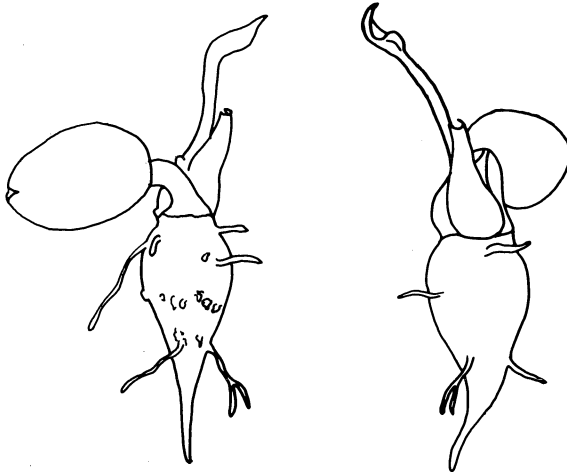


FIGURE 2. Seedling of *Dioon* ($\frac{1}{2}$ actual size) showing tuberous root development and immature leaves. Drawn from seeds germinated at Fairchild Tropical Garden in 1965.

Several basic references may first be considered as starting points for those interested in gaining a speaking acquaintance with cycads. In 1958 J. Thieret provided us with an extensive review of most of the scattered literature on the economic uses of many cycads*. The following year (1959) L. A. S. Johnson published the most comprehensive and authoritative modern work on the taxonomy of cycads. In 1962 D. D. Pant and Mehra published an extensive and detailed study of *Cycas*, the most comprehensive study of any cycad yet, covering anatomy, morphology, life history, relationship to the past, economic importance, and distribution. I would be remiss if I did not put in a word of warning regarding Schuster's (1932) publication in *Das Pflanzenreich*. It was with this work that I was introduced to the cycads. I soon found that confusion reigned. It was not until I read L. A. S. Johnson's treatment (1959) that I realized I was correct in my conclusions. "Despite its comprehensive scope and superficial aspect of detailed finality, Schuster so profusely introduces new and profound confusions in taxonomic concepts of every rank and in nomenclature, so blatantly contravenes the rules of priority, and so unreliably cites both synonymy and specimens that the work is quite egregious . . ."

*See Selected Subject Index for Citations on Economic Botany of Cycads.

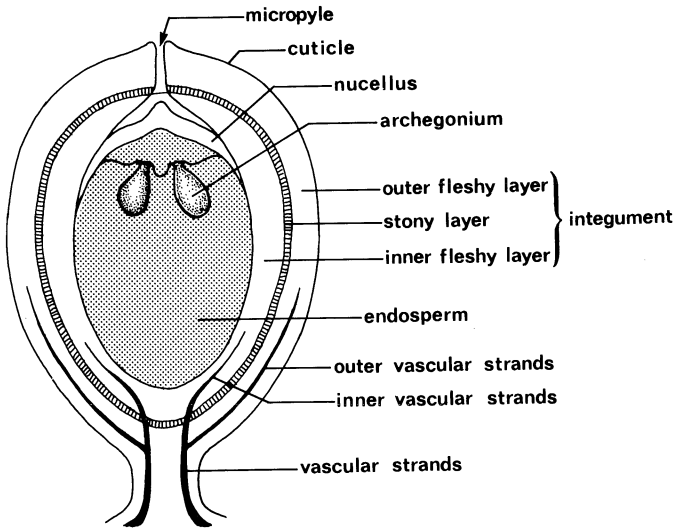


FIGURE 3. Diagrammatic scheme of mature *Cycas* ovule (slightly enlarged), based on schemes by Chamberlain, Pant, Swamy, etc.

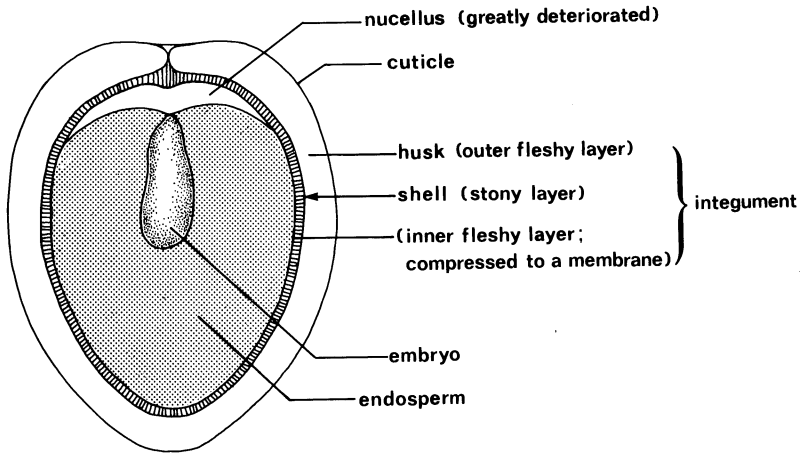


FIGURE 4. Generalized diagrammatic scheme of *Cycas* seed (slightly enlarged), based on information from Chamberlain, Pant, Swamy, and personal observation.

(Johnson 1959: 72-73). "Virtually identical plants, even the same specimens, are referred to entirely different species." and ". . . his arrangement and circumscription of all taxa from sections down to form bear almost no relation to the real affinities . . ." "The result is a jumble which almost defies disentanglement." I couldn't say it better.

I am aware of the incompleteness of this bibliography; even as I edit, additional new papers appear, obscure articles are uncovered, and many problematic references are omitted. However, because of the recent surge of interest in cycads I feel an urgency to make the contents herein available as expeditiously as possible. We are aware of numerous inadequacies but our hope is to provide a foundation upon which to build and to provide students of cycads with obscure educational or technical data. The bibliography and annotations are on disc, stored in DBASE II, a widely used database management system. The manuscript printout was created by running a program against the database and editing the output with a word processor. If users will provide us with corrections, additions, and comments we hope to keep the file updated for future release.

Needless to say, perhaps, users are advised to further check Biological Abstracts, Chemical Abstracts, Gardeners Chronicle, and other such sources before feeling an exhaustive search has been completed. Most references have been checked against original works, however numerous circumstances mitigate against accepting even these as conclusive. Citations are abbreviated in accordance with *Botanico-Periodicum-Huntianum* (1968) and where possible *Taxonomic Literature* (1976-present). While the majority of references have been checked in the Library of the Smithsonian Institution, the Library of Congress, or the Library of the U. S. Department of Agriculture in Beltsville, Maryland, in some cases (indicated by an asterisk*) it has not been possible to find or obtain originals. We would be very grateful to receive copies of any reference marked by an asterisk in order to make the file more complete.

Note: The arrangement of references in the bibliographical portion was dictated by the Selected Subject Indices. The authors are firstly arranged in alphabetical order, however, because of the fact that multiple authors in the indices are cited as "Author et al" and a date with a letter, the arrangement in the bibliography necessarily became chronological under the first cited author. For example, when faced with "Pant et al 1964" (which is in fact Pant and Mehra 1964) the reference will be found following "Pant & Nautiyal 1963d" and not immediately under "Pant & Mehra 1962a" as might otherwise be expected.

ACKNOWLEDGEMENTS

Based primarily on a preliminary bibliography, begun in 1964 at the request of Dr. Marjorie Grant Whiting, for inclusion in the Proceedings of The Fourth Conference on the Toxicity of Cycads, the present bibliography is the accumulated input from a number of sources. Major contributions resulted from the very important works of C. J. Chamberlain, D. D. Pant & B. Mehra, and L. A. S. Johnson; the cycad files of the Liberty Hyde Bailey Hortorium of Cornell University, the personal files of J. R. Maconochie and R. Hoogland of Australia, those of the Jodrell Laboratory at Kew, and many others, but resulted primarily from references cited by many authors each of which was assiduously checked against my basic file and the original publications.

Ideally the preparation of this sort of work would require my complete attention or a full time staff of assistants for library research, editing and programming. Lacking this, the present bibliography has taken over 20 years of stolen hours, freely offered volunteer help, and a smattering of professional input. Foremost among contributors was Dr. Marie L. Solt, co-author, who, aware of her grave illness, asked for a project to keep busy in a productive manner. She spent many long hours, of her final days, in the library of the U. S. Department of Agriculture, near her home in Beltsville, Maryland. We are deeply indebted to Marie for the vast majority of references and annotations gleaned from thousands of prospective leads.

Great appreciation is extended to others who contributed in one way or another to getting the bibliography ready for computerization. Mrs. Edna Montford compared most of the references to BPH and Tax. Lit. for standardized abbreviations; Laura Lehtonen, first as a George Washington University student volunteer and later as a Technical Assistant, assisted with library searches and then proofing of cards; Vivian Negrón Ortiz, a Summer Intern from the University of Puerto Rico, contributed a number of new references and many hours of library research; Elizabeth Watson, a volunteer in the Department of Botany, has spent many hours with works such as ING, Index Kewensis, Index Londensis, and the Gray Cards searching for cycad names and additional references, Alice Tangerini for assisting with the figures, Anne Cushman, a Secretary in the Department of Botany, typed the original draft onto the disc, and Christine Lynch for the finishing touches. Finally, the capability for programming the bibliography into the computer was provided by Susan Wiser, a Museum Technician in the Department of Botany. Susan must be given complete credit for making it possible to finally see the light at the end of the tunnel, having typed in all corrections and carrying out all computer operations. Thanks also go to Ellen Farr of the ING Project for assisting Susan in times of need.

FAMILIES OF CYCADALES

- A. Leaflets circinate in bud, each with a single thickened midnerve and no lateral veins; female sporophylls blade-like, pinnatifid, pectinate or toothed, not forming a cone (rather they are arranged in a whorl with the new leaves eventually arising from the center) with (2-) 4-10 ovules inserted marginally. Old World. CYCADACEAE L. C. Richard 1807.
1. *Cycas* L.
- A. Leaflets usually quite straight, not circinate (although the frond as a whole may be) with many lateral or longitudinal parallel nerves; female sporophylls scale-like, more or less peltate with a thickened and laterally expanded end within which 2-3 (rarely more) ovules are inserted on the adaxially facing surface, arranged in a definite cone, . . .
- B. Leaflets pinnately nerved (each with a definite midnerve and numerous transverse parallel dichotomously branched lateral veins), convolute in bud; sporophylls imbricate but in almost vertical rows; stem subterranean. E. and S.E. Africa. STANGERIACEAE L.A.S. Johnson 1959.
2. *Stangeria* T. Moore
- B. Leaflets not pinnately nerved (lacking a midnerve and the veins are longitudinal and more or less parallel), not convolute in bud; sporophylls either imbricate and not in vertical rows, or apparently valvate and arranged in vertical rows; stems subterranean or aerial. ZAMIACEAE Reichenbach 1837.
- TRIBE Encephalartee (Miquel) L.A.S. Johnson 1959.
3. *Lepidozamia* Regel
 4. *Macrozamia* Miquel
 - Sect. *Macrozamia*
 - Sect. *Parazamia*
 5. *Encephalartos* Lehmann
- TRIBE Diöneae (Schuster) L.A.S. Johnson 1959.
6. *Dioon* Lindley
- TRIBE Zamieae
7. *Microcycas* (Miquel) De Candolle
 8. *Ceratozamia* Brongniart
 9. *Zamia* L.
 10. *Bowenia* Hooker ex Hooker f.

KEY TO THE GENERA OF CYCADALES

- A. Leaves bipinnate; stem subterranean, *Bowenia*
- A. Leaves once pinnate (all leaflets arise from the single principal rachis), . . .
- B. Leaflets each with a single prominent mid-vein, . . .
- C. Leaflets with smooth more or less parallel margins and lacking secondary nerves; *Cycas*
- C. Leaflets with irregular margins and with distinct secondary pinnately arranged nerves; *Stangeria*
- B. Leaflets lacking a single distinctive mid-vein, the several uniform nerves usually divided-furcate, . . .
- D. Sporophyll-ends truncated, prismoid-octagonal, more or less faceted, . . .
- E. Sporophylls armed with two horn-like projections; petioles usually armed with small scattered thorns, *Ceratozamia*
- E. Sporophylls unarmed, flat, rounded or slightly excavated; petioles usually unarmed, . . .
- F. Leaves produced one or a few at a time; leaflets often blunt-tipped, minutely toothed or erose apically; stems naked; *Zamia*
- F. Leaves produced in periodic flushes; leaflets acute or spinose (not apically toothed or erose); stems clothed with old leaf bases; . . .
- G. Sporophylls arranged in vertical rows, not highly colored, with short crisped hairs, *Microcycas*
- G. Sporophylls arranged in spirals, often highly colored or simply green, brownish, or chartreuse, glabrous or variously wooly; *Encephalartos*
- D. Sporophyll-ends acutely or bluntly pointed, not faceted, often with a terminal spine, or with a large upcurved sterile apex, . . .
- H. Female cone compact, glabrous or tomentose but not wooly, with ovules sessile on sporophylls; . . .
- I. Cones sessile or subsessile; sporophyll-ends tomentose, produced into a spreading obtuse to acute but not spinescent wing; leaflets inserted on the upper midline of the midrib, petiole-bases shortly tomentose, *Lepidozamia*
- I. Cones stalked; sporophyll-ends glabrate, often glaucous, produced into a rigid more or less erect spine; leaflets inserted near the edges of the midrib, petiole-bases silky or wooly; *Macrozamia*
- H. Female cone loosely arranged, densely wooly, with the ovules on stalk-like swellings of the sporophyll which has a large apically directed sterile pointed apex; *Dioon*

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Descriptions/Keys

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Abbema 1934; Ambronn 1884; Andrews 1947; Arnold 1953; Atwood 1936; Audran 1965b, 1972; Baird 1939; Bancroft 1914; Bell et al. 1968; Bernard 1904; Bertrand et al. 1886; Bierhorst 1960, 1971; Biraghi 1938; Bobrov 1962; Bold 1957-73; Boureau 1943, 1944, 1946a, 1946b; Bower 1884; Brashier 1968; Brongniart 1829, 1875; Brough et al. 1940; Brunkenner 1973; Bryan 1936, 1952; Caldwell 1907, 1909; Carano 1903; Chacko et al. 1976; Chadefaud et al. 1960; Chamberlain 1906, 1908, 1909a, 1910, 1911, 1912a, 1913, 1916, 1919, 1935; Chaudhuri et al. 1931a; Chauveaud 1911, 1931; Chavan et al. 1962; Chiffot 1920; Chrysler 1926, 1937; Constantin et al. 1885; Coulter et al. 1903, 1904a, 1910; Dannehl 1930; Davie 1917; De Bary 1870, 1884; De Sloover 1962, 1963a, 1964; De Vriese 1880; Den Outer 1967; Don, D. 1840; Dorety 1908a, 1908b, 1909a, 1909b, 1919; Downie 1928; Doyle 1953; Dublish et al. 1976; Duchartre 1888; Eicke 1963; Eicke et al. 1961; Emberger 1949; Endress 1975; Fagerlind 1961; Figuier 1874; Foster 1939, 1940, 1941a, 1941b, 1943; Frank 1864; Fritsch et al. 1965; Gamble 1922; Gausson 1963; Ghouse et al. 1972; Golysheva 1976; Gottsche 1845; Gregg 1887; Greguss 1955, 1957, 1958, 1961, 1963a, 1964, 1966a, 1968, 1969, 1975; Griffith 1882; Grilli Caiola 1963b, 1970, 1972, 1974, 1975; Grilli Caiola et al. 1963; Gris 1886; Guttenberg 1961; Haberlandt 1914; Hale 1923; Handa 1939, 1946; Harz 1885; Hatfield 1921; Haupt 1953; Hill et al. 1909; Hopner 1957; Ikeno 1896a, 1896b, 1898b; Johnson, M. A. 1939, 1942, 1943, 1944a, 1944b, 1951; Karsten 1856; Karzel 1908; Kashyap 1925, 1926, 1930; Kershaw 1912; Koelerman et al. 1981; Kraus 1865-66; La Rue 1948, 1950; Lamb 1923; Lang 1897; Langdon 1920; Le Goc 1914; LeMaout et al. 1873; Lemesle 1946, 1947; Lestiboudois 1860; Liese 1965; Life 1901; Lignier 1892, 1894a, 1894b; Linsbauer 1930; Mahler 1885; Marsh 1914; Martens 1957; Martin et al. 1970; Matte 1903a, 1903b, 1904, 1907, 1908, 1909; McGrath 1971; McGrath et al. 1973; McLean, et al. 1951; Meeuse 1963; Mercado 1975a, 1975b; Messeri 1927a, 1927b, 1930; Mettenius 1861; Meyer 1960; Milinda-suta 1975; Miller 1919; Miquel 1839a, 1839b, 1844a, 1845a, 1846a, 1868, 1869a; Miyake 1905, 1906; Mohl 1832; Napp-Zinn 1966; Nathanielsz et al. 1974, 1975a, 1975b; Nestler 1895; Newman 1965; Nishida 1939; Norstog 1965, 1967a, 1968, 1974a, 1975, 1977; Norstog et al. 1965; Oliver 1903; Pammel et al. 1930; Pandey et al. 1976; Pant 1953, 1973; Pant et al. 1962a, 1962b, 1963a, 1963b, 1963c, 1963d, 1964; Papadopoulos 1928; Pate 1976; Pavolini 1909; Pearson 1898; Pettitt 1976; Pillai 1963; Plaut 1910; Poole 1923; Porsch 1905; Potonie 1887; Rao 1961, 1962, 1963,

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Alston et al. 1963; Atkinson 1956; Audran 1973, 1974b, 1977a, 1977b; Balgoveshchenskii 1975; Bauman et al. 1976; Brandt et al. 1975; Carson 1972; Chopra et al. 1956; Dossaji 1974; Dossaji et al. 1973, 1975; Frohne et al. 1973; Geiger et al. 1971; Gibbs 1957; Handa et al. 1971; Hara et al. 1972, 1974; Kariyone et al. 1958, 1959; Lythgoe et al. 1949; Maggini et al. 1975; Manunta 1939; Nagahama et al. 1960a, 1960b; Nishida 1934b, 1935a, 1935b, 1936a, 1936b, 1937, 1938; Nishida et al. 1934, 1935, 1957; Numata et al. 1960; Riggs 1949; Siersch 1926; Siniscalco Gigliano 1981; Sud'yina 1975; Swain 1963; Tandon et al. 1957; Teas 1967; Tsuchiya et al. 1951; Tuzimoto et al. 1938; Van Dongen 1903; Wallace 1972; Whiting et al. 1966; Yoshimura 1919, 1922; Yoshimura et al. 1918; Zuck et al. 1959.

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Abraham et al. 1962, 1966; Audran 1964a, 1964b, 1969, 1971, 1972, 1973, 1976, 1977a, 1977b, 1978, 1979, 1980, 1981; Berrie 1959; Brough et al. 1939; Bryan et al. 1956, 1957; Cave 1958-60, 1961-65; Chamberlain 1915, 1926b, 1935; Dannehl et al. 1930; Darlington et al. 1955; De Silva et al. 1952; De Sloover 1961; Flory 1936; Ikeno 1896c, 1897, 1898a; Johnson, L. A. S. 1959, 1963; Khoshoo 1962, 1969; Kuwada 1925, 1926, 1929; Kuwada et al. 1929; La Rue 1948, 1950, 1953; Levin et al. 1976; Light 1924; Marchant 1968; Mizukami et al. 1966; Moore, R. J. 1973, 1974; Nakamura 1929; Norstog 1965, 1967a, 1967b, 1968, 1974b, 1980a; Norstog et al. 1967; Ornduff 1967, 1968; Pant et al. 1963a; Resende 1939; Resende et al. 1948; Reynolds 1924; Sax et al. 1934; Scagel et al. 1969; Segawa et al. 1971; Seitz 1951; Sharma et al. 1960; Shetty et al. 1962, 1967; Shimamura 1935; Smith, A. 1863; Storey 1968; Tarchi 1969; Vassilyev et al. 1976; Vieillard 1873; Viveiros 1951; Vovides 1983; Wittmann 1964.

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Audran 1964a, 1965a, 1965b, 1970a, 1970b, 1973, 1974a, 1974b, 1977b, 1978, 1980, 1981; Audran et al. 1976, 1977; Bierhorst 1971; Brandt et al. 1975; Breckon et al. 1983; Carrière 1877; Cendrero 1940; Coulter et al. 1910; De Bary 1870; De Luca et al. 1980a; De Silva et al. 1952; De Vries 1983; Erdtman 1957; Erdtman et al. 1969; Guignard 1889; Gullvag 1966; Jacot-Guillarmod 1958, 1959; Juranyi 1872, 1882; Kiem, S. C. 1972; Klotzsch 1847; Knuth 1909; Kühlwein et al. 1951; Lang 1897; Lemaire 1863b; Marloth 1914; Niklas 1978; Niklas et al. 1984; Nishida 1935b; Norstog 1982a; Norstog et al. 1980; Pearson 1906; Safford 1905; Wester 1910; Wodehouse 1935; Woodward 1941.

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Anon. 1975b; Audran 1964b, 1969, 1971, 1972, 1973, 1974a, 1980, 1981; Baird 1939; Bell et al. 1968; Bierhorst 1971; Bold 1957-73; Bower et al. 1939; Brough et al. 1939, 1940; Brunkener 1973; Caldwell 1907; Campbell 1940; Chadefaud et al. 1960; Chamberlain 1906, 1909a, 1910, 1912a, 1916, 1919, 1935; Croizat 1952; De Luca et al. 1979c, 1980a; De Silva et al. 1952; De Wit 1963; Dorety 1908a, 1919; Downie 1928; Downing 1837; Doyle 1953; Fritsch et al. 1965; Gausson 1963; Hammer 1980; Holttum 1953; Ikeno 1896b, 1896c, 1897, 1898a; Ikeno et al. 1897; Jeffrey 1917; Johansen, D. A. 1950; Karsten 1856; Kershaw 1912; Lang 1897, 1900; Le Goc 1917; Lemaire 1863b; Light 1924; Marloth 1914; McLean, et al. 1951; Miyake 1905, 1906; Newell 1983; Norstog 1977, 1980b; Pant 1973; Pant et al. 1962a; Rao 1961, 1963, 1964, 1970a, 1970b, 1972a; Rattray 1913; Rendle 1904; Reynolds 1924; Rushforth 1976; Ryczkowski 1965; Sachs 1875; Safford 1919; Saxton 1910; Scagel et al. 1969; Schleiden 1849; Sedgwick 1924; Singh 1978; Smith, F. G. 1907; Smith, I. S. 1904; Swamy 1948; Tang 1983; Treub 1882, 1884; Vorster et al. 1974a; Webber 1897a, 1897b, 1897c, 1901.

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Ahmad 1948; Anon. 1886a; Atkins 1954; Baird 1939; Beller 1948; Beshear 1975; Blatchley 1932; Bose 1944; Burkill 1918; Covassi 1974; Cressman 1933; De Vries 1976; Dekle 1965; Dodge 1948; Dyer 1965a; Giddy 1974; Greenberg 1973; Kuwana 1926; Laughton 1948; MacDonagh 1943; Mandahar 1965, 1971; McKenzie 1943; Mundkur 1946; O'Brien 1973; Pant 1973; Petrak 1955; Pirone et al. 1960; Raizada et al. 1960; Rao et al. 1964; Ratray 1913; Safford 1919; Shreemali 1972; Slosson 1889; Sokoloff et al. 1943; Srivastava et al. 1963; Stevenson 1926; Szent-Ivany et al. 1956; Szober 1962; Tandon et al. 1954, 1957, 1960a, 1960b; Thind et al. 1965; Thirumalachar 1948; Verwoerd et al. 1933; Wagner 1963; Weber 1944; Westwood 1886.

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Thiselton-Dyer 1884.
- Ceratozamia microstrobila* Vovides & Rees
Vovides 1983; Vovides et al. 1983a.
- Ceratozamia miqueliana* Wendland
Gorenflot 1955; Miquel 1861, 1868, 1869b; Regel 1876a, 1876e;
Vovides et al. 1983c; Wendland 1854.

- Ceratozamia miquelii* Hort. ex Siebert & Voss ?
Siebert & Voss 1896.
- Ceratozamia norstogii* Stevenson
Stevenson 1982.
- Ceratozamia ottonis* Hort. ex Schuster
Schuster 1932.
- Ceratozamia purpurea* Matte
Matte 1904.
- Ceratozamia robusta* Miquel
Miquel 1848a, 1861; Regel 1876a, 1876e; Vovides et al. 1983c.
- Ceratozamia zaragozae* Medellin-Leal
Medellin-Leal 1963; Moretti et al. 1982; Stevenson 1982; Vovides
1983; Vovides et al. 1983c.
- Cycas afra* Schuster
Schuster 1932.
- Cycas angulata* Brown
Brown 1810; Miquel 1843b, 1861, 1863b, 1868.
- Cycas armstrongii* Miquel
Miquel 1868.
- Cycas aurea* Hort. ex Schuster
Schuster 1932.
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- Cycas balansae* Warburg
Warburg 1900.
- Cycas basaltica* Gardner
Gardner 1923.
- Cycas beddomei* Hort. ex Hooker
Hooker 1888.
- Cycas beddomei* Thiselton-Dyer
Bor 1953; Brandis 1907; Fischer 1928; Gorenflot 1955; Miquel 1962;
Pal et al. 1971; Pant et al. 1962; Shetty et al. 1967; Thisleton-Dyer
1881, 1883.
- Cycas bellefonti* Linden et Rodigas
Linden & Rodigas 1886; Rodigas 1886.
- Cycas boddamii* Schuster
Schuster 1932.
- Cycas caffra* Thunberg
Thunberg 1775, 1784.
- Cycas cairnsiana* F. Mueller
Maconochie 1978; Mueller 1858-77.
- Cycas calcicola* Maconochie
Maconochie 1978.
- Cycas celebica* Miquel
Koorders 1898; Miquel 1840a, 1840b, 1840c, 1843b, 1861; Regel
1876a.
- Cycas chamberlainii* W. H. Brown & Kienholz
Brown et al. 1925.

Cycas chevalieri Leandri

Leandri 1931.

Cycas circinalis L.

Blanco 1880; Blume 1848; Bor 1953; Brandis 1907; Brown 1810; Burkill 1901, 1935; Carabia 1941; Degener 1949; Fischer 1928; Florin 1956; Fosberg et al. 1975; Foxworthy 1911; Gorenflot 1955; Guillaumin 1932; Guppy 1906; Hamilton 1826; Hooker, W. J. 1828; Kanehira 1933; Koorders 1898; Lauterback 1901; Linnaeus 1763; MacMillan 1946; Miquel 1839c, 1840b, 1843b, 1861, 1868; Mueller 1858-77; Paleker 1965; Pant 1973; Raizada et al. 1960; Regel 1876a; Roxburgh 1814, 1832; Safford 1905; Seemann 1852-57; Smitinand 1971, 1972; Thunberg 1782; Thwaites 1861; Trimen 1887, 1895; Warburg 1900; Willdenow 1806; Woltz 1967.

Cycas circinalis ssp. *madagascariensis* (Miquel) Schuster

Schuster 1932.

Cycas circinalis ssp. *papuana* Schuster

Kanehira et al. 1941; Schuster 1932; Szent-Ivany et al. 1956; Van Royen 1973.

Cycas cochinchinensis Warb. ex Schuster

Schuster 1932.

Cycas comorensis Bruant

Bruant 1888.

Cycas comorensis Duchartre

Duchartre 1888.

Cycas cydadis Miquel

Miquel 1863b.

Cycas dilatata Griffith

Griffith 1854b.

Cycas duivenbodei Anon.

Anon. 1886b; Linden & Rodigas 1886.

Cycas furfuracea Fitzgerald

Fitzgerald 1918; Gardner 1923.

Cycas glauca Miquel

Miquel 1840a, 1840c, 1843b, 1861, 1868; Regel 1876a.

Cycas glaucophylla Hort. ex Siebert & Voss

Siebert & Voss 1895.

Cycas gracilis Miquel

Miquel 1863b, 1868; Regel 1876a.

Cycas gracilis var. *glauca* Regel

Regel 1878a.

Cycas hainensis Chen, C. J. ex C. Y. Cheng et al.

Cheng et al. 1975b.

Cycas hamelini Schuster

Schuster 1932.

Cycas hypoleuca Presl

Blanco 1880; Presl 1849.

- Cycas immersa* Craib
Craib 1912.
- Cycas inermis* De Loureiro
Blume 1848; De Loureiro 1793; Merrill 1935; Miquel 1843b; Oudemans 1867, 1868; Regel 1876a; Tandy et al 1927; Warburg 1900.
- Cycas intermedia* Williams
Williams 1878.
- Cycas jenkinsiana* Griffith
Griffith 1854b.
- Cycas kennedyana* F. Mueller
Mueller 1882b; Warburg 1900.
- Cycas kirkii* Hort. ex Schuster
Schuster 1932.
- Cycas lane-polei* Gardner
Gardner 1923.
- Cycas macrocarpa* Griffith
Griffith 1854b.
- Cycas madagascariensis* Miquel
Miquel 1840a, 1843b.
- Cycas media* Brown
André 1879b; Bentham 1873; Braun 1876; Brown 1810; Ewart et al. 1917; Gorenflot 1955; Maconochie 1978; Miquel 1843b, 1861, 1863b, 1868; Moore 1878a; Mueller 1858-77; Regel 1876a.
- Cycas micholitzii* Thiselton-Dyer
Gorenflot 1955; Prain 1909b; Raffill 1912; Smitinand 1971, 1972; Tandy et al 1927; Thiselton-Dyer 1905.
- Cycas micholitzii* var. *simplicipinna* Smitinand
Smitinand 1971, 1972.
- Cycas miquelii* Warburg
Warburg 1900.
- Cycas nathorstii* Schuster
Schuster 1932.
- Cycas neo-caledonica* Linden
Linden 1881.
- Cycas normanbyana* F. Mueller
Gorenflot 1955; Mueller 1858-77; Warburg 1900.
- Cycas pandanifolia* Hort. ex Lindley
Lindley 1865.
- Cycas papuana* F. Mueller
Beccari 1881; Kanehira et al. 1941; Mueller 1885; Warburg 1900.
- Cycas pectinata* Griffith
Abraham et al. 1962; Blume 1848; Brandis 1907; Griffith 1854b; Hamilton 1826; Kanjilal et al. 1940; Kurz 1877; Miquel 1868; Pant et al. 1962; Prain 1903b; Raizada et al. 1960; Smitinand 1971, 1972.
- Cycas pluma* Hort. ex Moore
Moore 1878b.

Cycas pruinosa Maconochie
Maconochie 1978.

Cycas recurvata Blume ex Schuster
Schuster 1932.

Cycas reidleyi Fisch ex Gaudichaud-Beaupré
Johnson 1959.

Cycas revoluta Beddome
Beddome ———.

Cycas revoluta Thunberg
André 1896; Backer et al. 1964; Barker et al. 1930; Blanco 1880; Bor
1953; Brandis 1907; Carabia 1941; Cheng et al. 1975b; Deny 1887;
Franchet et al. 1875; Groff 1930; Hooker, W. J. 1830; Kanjilal et al.
1940; Lee 1935; Liao 1962; Lindley 1848; Miquel 1843b, 1861, 1868;
Miyoshi 1905-09; Moscoso 1943; Nasir et al. ———; Ohwi 1953;
Oudemans 1867; Pant 1973; Pant et al. 1962; Prain 1903b; Raizada et
al. 1960; Regel 1876a; Roxburgh 1832; Smitinand 1971, 1972; Tandy
et al 1927; Thiselton-Dyer 1902; Thunberg 1782, 1783, 1784; War-
burg 1900; Willdenow 1806; Yamamoto 1928a, 1928b.

Cycas revoluta var. *glabra* Satake
Satake 1975.

Cycas revoluta var. *hystrix* Satake
Satake 1975.

Cycas revoluta var. *involuta* Satake
Satake 1975.

Cycas revoluta var. *robusta* Messeri
Messeri 1927.

Cycas riedleyi Fisch. ex Gaudichaud-Beaupré
Gaudichaud-Beaupré 1826.

Cycas riuminiana Porte ex Regel
Blanco 1880; Miquel 1868; Pant et al. 1962; Regel 1863, 1876a.

Cycas romanzoffiana Hort. ex Schuster
Schuster 1932.

Cycas rumphii Miquel
Backer et al. 1964; Beccari 1877, 1881; Beddome ———; Benthall
1933; Blanco 1880; Brandis 1907; Brown 1921, 1951; Cheng et al.
1975b; Kurz 1877; Malm 1934; Miquel 1839c, 1840b, 1843b, 1852,
1861, 1868; Morton 1967; Nasir et al. ———; Pant 1973; Pant et al.
1962; Prain 1903b; Quisumbing 1951; Raizada et al. 1960; Smitinand
1971, 1972; Thiselton-Dyer 1902; Trimen 1895; Warburg 1900.

Cycas rumphii f. *palavica* Kanehira
Kanehira 1938.

Cycas rumphii f. *papuana* (F. Mueller) Kanehira
Kanehira et al. 1941, 1958; Van Royen 1973.

Cycas rumphii f. *seemannii* (A. Braun) Kanehira
Kanehira 1938.

Cycas rumphii f. *undulata* (Gaudichaud-Beaupré) Kanehira
Handa 1946; Kanehira 1938.

- Cycas rumphii* var. *bifida* Thiselton-Dyer
Thisleton-Dyer 1902.
- Cycas rumphii* var. *timorensis* Miquel
Miquel 1842, 1843b.
- Cycas schumanniana* Lauterback
Lauterback 1901.
- Cycas scratchleyana* F. Mueller
Mueller 1876–85.
- Cycas seemannii* A. Braun
Braun 1876; Carruthers 1893.
- Cycas siamensis* Miquel
Anon. 1882; Bor 1953; Brandis 1907; Burkill 1935; Cheng et al. 1975b; Craib 1912; Deb 1958; Godefroy-Lebeuf 1881; Gorenflot 1955; Hosseus 1911; Kurz 1877; Lee 1935; MacMillan 1946; Miquel 1863a, 1868; Morton 1967; Pant et al. 1962; Raizada et al. 1960; Regel 1864, 1876a, 1881; Smitinand 1971, 1972; Thiselton-Dyer 1902.
- Cycas speciosa* Don
Don 1840.
- Cycas sphaerica* Roxburgh
Miquel 1843b, 1868; Roxburgh 1814, 1832.
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- Cycas squamosa* Loddiges
Loddiges ———.
- Cycas squamosa* Miquel
Don 1830.
- Cycas squarrosa* Steudel
Miquel 1843b; Steudel 1840.
- Cycas sundaica* Miquel ex Schuster
Schuster 1932.
- Cycas szechuanensis* C. Y. Cheng et al.
Cheng et al. 1975b.
- Cycas taiwaniana* Carruthers
Carruthers 1893; Cheng et al. 1975a, 1975b; Lee 1935; Li 1963; Li et al. 1954; Liao 1962; Metcalf 1942; Thiselton-Dyer 1902; Walker 1976; Yamamoto 1928a, 1928b, 1931b.
- Cycas terkesi*
Duchartre 1883.
- Cycas thouarsii* (*thuarsii*) R. Brown
Baron 1889; Blume 1848; Brown 1810; De Candolle 1868; Jummelle 1922; Liao 1962; Miquel 1861, 1868; Prain 1917; Stapf 1916; Woltz 1967.
- Cycas thuarsii* Gaudichaud-Beaupré
Gaudichaud-Beaupré 1829; Heenan 1977; Lewis 1960–61.
- Cycas tonkinensis* Hort. ex Gentil
Gentil 1907; Gorenflot 1955.
- Cycas undulata* Desfontaine ex Gaudichaud-Beaupré
Blume 1848; Gaudichaud-Beaupré 1829; Miquel 1861, 1868.

- Cycas villosa* De Candolle
De Candolle 1868; Durand et al. 1894.
- Cycas wadei* Merrill
Merrill 1936.
- Cycas wallichii* Miquel
Miquel 1842, 1843b.
- Cycas wendlandii* Anon.
Anon. 1895.
- Dioon aculeatum* Lemaire
Anon. 1846; De Luca et al. 1982; Lemaire 1855; Vovides et al. 1983c.
- Dioon angustifolium* Miquel
De Luca et al. 1982; Miquel 1848a, 1851b.
- Dioon califanoi* De Luca & Sabato
De Luca et al. 1979a.
- Dioon caputoi* De Luca, Sabato & Vázquez-Torres
De Luca et al. 1980.
- Dioon dohennyi* Anon.
Anon. 1912; Howard 1933.
- Dioon edule* Lindley
Chamberlain 1906; De Luca et al. 1982; Gorenflot 1955; Hooker, J. D. 1875; Lemaire 1855; Lindley 1843; Miquel 1851b, 1861, 1868, 1869b; O'Brien 1973; Regel 1876a, 1876f; Vovides et al. 1983c; Wilson 1911; Wittmack 1899.
- Dioon edule* var. *angustifolium* (Miquel) Miquel
Abel 1886; De Luca et al. 1982; Lemaire 1855; Miquel 1851, 1861, 1869; Vovides et al. 1983c.
- Dioon edule* var. *imbricatum* (Miquel) Miquel
De Luca et al. 1982; Lemaire 1855; Miquel 1851, 1861, 1869.
- Dioon edule* var. *lanuginosum* Wittmack
Wittmack 1899.
- Dioon edule* var. *latipinna* Thiselton-Dyer
De Luca et al. 1979, 1982; Thiselton-Dyer 1884.
- Dioon holmgrenii* De Luca, Sabato & Vázquez Torres
De Luca et al. 1981b.
- Dioon imbricatum* Miquel
De Luca et al. 1982; Miquel 1848a, 1851b.
- Dioon mejiae* Standley & Williams
De Luca et al. 1979b, 1982; Standley et al. 1950.
- Dioon merolae* De Luca, Sabato & Vázquez Torres
De Luca et al. 1981a.
- Dioon pectinatum* H. Wendland
Anon. 1893; De Luca et al. 1979; Wendland 1854.
- Dioon purpusii* Rose
De Luca et al. 1979, 1980; Gentry 1942; Rose 1909; Sabato et al. 1978; Vovides 1983.
- Dioon rzedowskii* De Luca et al.
De Luca et al. 1980c.

- Dioon spinulosum* Thiselton-Dyer
Anon. 1883b; Chamberlain 1908, 1926a; Eichler 1883; Thisleton-Dyer 1883b; Vovides et al. 1983c.
- Dioon strobilaceum* Lemaire (*strobilosum* ?)
De Candolle 1868; De Luca et al. 1982; Lemaire 1863a; Vovides et al. 1983c.
- Dioon tomasellii* De Luca et al.
De Luca et al. 1984.
- Dipsacozamia mexicana* Leibm. ex Thiselton-Dyer
Thiselton-Dyer 1884.
- Encephalartos acanthus* Masters
Masters 1878.
- Encephalartos affine* Lehmann [ex Miquel ?]
Miquel 1839.
- Encephalartos almasianus* Hort. ex Schuster
Schuster 1932.
- Encephalartos altensteinii* Lehmann
Anon. 1875; Chabaud 1874; Dyer 1965a; Dyer et al. 1951; Gorenflot 1955; Henderson 1945; Heynhold 1841; Hooker, J. D. 1891; Hutchinson 1933; Lehmann 1834a, 1834b; Lemaire 1864; Miquel 1843b, 1847-48, 1861, 1868, 1869b; Pearson 1906; Rattray 1913; Regel 1876c.
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- Encephalartos altensteinii* var. *regalis* W. Bull
Bull ———; Messeri 1927.
- Encephalartos altensteinii* var. *semidentatus*
Bois et al. 1919.
- Encephalartos arenarius* Dyer
Dyer 1956, 1965a.
- Encephalartos barteri* Carruthers ex Miquel
Berrie et al. 1956; Hall et al. 1967; Heenan 1977; Hutchinson et al. 1927, 1937; Irvine 1961; Melville 1957; Miquel 1868; Prain 1909a, 1917.
- Encephalartos barteri* subsp. *allochrous* Newton
Newton 1978.
- Encephalartos brachyphyllus* Lehmann & De Vriese
De Vriese 1837; Miquel 1843b, 1847-48; Regel 1876a, 1876c.
- Encephalartos brownnei* Hort. ex Schuster
Schuster 1932.
- Encephalartos bubalinus* Melville
Heenan 1977; Melville 1957.
- Encephalartos bucklandii* Miquel
Lemaire 1864; Miquel 1842.
- Encephalartos caffer* (Thunberg) Thunberg
Lehmann 1834a; Thunberg 1800.
- Encephalartos caffer* Miquel
Delchevalerie 1869; Dyer 1965a; Gorenflot 1955; Henderson 1945; Hooker, W. J. 1856; Hutchinson 1933; Lemaire 1864; Leon de

- Lunaret 1880; Miquel 1842, 1843b, 1847–48, 1861, 1868, 1869b;
Regel 1876a, 1876c; Sweet 1826.
- Encephalartos caffer* var. *unidentatus* Regel
Regel ———.
- Encephalartos caffrorum* Sion ex Yates
Yates 1849.
- Encephalartos chimanimaniensis* Dyer & Verdoorn
Dyer et al. 1969; Vorster et al. 1974b.
- Encephalartos concinnus* Dyer & Verdoorn
Dyer 1972b; Dyer et al. 1969.
- Encephalartos crassifolius* Hort. ex Schuster
Schuster 1932.
- Encephalartos cupidus* Dyer
Dyer 1971b.
- Encephalartos cycadifolius* (Jacquin) Lehmann
Dyer 1965a, 1965c; Gaertner 1788; Henderson 1945; Hutchinson
1933; Lehmann 1834a, 1834b; Lemaire 1864; Miquel 1843b, 1861,
1868, 1869b; Regel 1876a, 1876c.
- Encephalartos cycadifolius* var. *friderici-guilelmii* (Lehmann) Regel
Lehmann 1834a; Regel 1880; Rodigas 1882.
- Encephalartos cycadis* Sweet
Sweet 1826.
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- Encephalartos denisonii* (C. Moore in Mueller) F. Mueller
Johnson 1959a; Miquel 1863b; Mueller 1858–77, 1859a, 1859b.
- Encephalartos dentatus* Regel
Pant et al. 1963a; Regel ———.
- Encephalartos douglassii* F. Mueller
Johnson 1959a; Mueller 1882a.
- Encephalartos dyeri* F. Mueller
Johnson 1959a; Mueller 1885.
- Encephalartos elongatus* Miquel
Lemaire 1864; Miquel 1843b, 1861, 1868, 1869b.
- Encephalartos eugene-maraisii* Verdoorn
Dyer 1965a, 1972b, 1976b; Henderson 1945; Verdoorn 1945.
- Encephalartos eximius* Verdoorn
Britten et al. 1954; Verdoorn ———.
- Encephalartos ferox* Bertolini
Bertolini 1851; Lewis 1960–61; Prain 1916, 1917; Verdoorn 1962.
- Encephalartos fraseri* (Miquel) Miquel
Johnson 1959; Miquel 1863b.
- Encephalartos friderici-guilelmii* Lehmann
Dyer 1965a; Lehmann 1834a, 1834b; Miquel 1843b, 1847–48, 1861;
Pearson 1906; Regel 1880.
- Encephalartos ghellinckii* Lemaire
Dyer 1965a, 1965c, 1976b; Friede 1963; Henderson 1945; Hutchinson
1933; Lemaire 1868; Verdoorn 1962.
- Encephalartos gigas* Miquel
Lemaire 1864; Miquel 1842.

- Encephalartos glaber* Hort. ex Schuster
Schuster 1932.
- Encephalartos grandis* Hort. ex Schuster
Schuster 1932.
- Encephalartos gratus* Prain
Heenan 1977; Lewis 1960–61; Melville 1957; Prain 1916, 1917.
- Encephalartos gratus* var. *manikensis* Gilliland
Gilliland 1938.
- Encephalartos heenanii* Dyer
Dyer 1972a; Heenan 1977.
- Encephalartos heteropterus* Miquel ex Schuster
Schuster 1932.
- Encephalartos hildebrandtii* A. Braun et Bouché
Abraham et al. 1966; Anon. 1918; Braun 1876; Braun et al. 1874;
Dale et al. 1961; Fenzi 1878; Heenan 1977; Hennings 1890; Lewis
1960–61; Moore 1878a; Prain 1915, 1917; Regel 1876c; Stapf 1914.
- Encephalartos hildebrandtii* var. *dentatus* (Regel) Melville
Melville 1957.
- Encephalartos hildebrandtii* var. *hildebrandtii* (A. Braun et Bouché)
Melville
Melville 1957.
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- Encephalartos horridus* (Jacquin) Lehmann
Dyer 1965a, 1976b; Gorenflot 1955; Henderson 1945; Hutchinson
1933; Jacquin 1800–09; Lehmann 1834a, 1834b; Lemaire 1864;
Miquel 1838, 1839, 1843b, 1847–48, 1861, 1868, 1869b; Regel 1876a,
1876c; Yates 1902.
- Encephalartos horridus* f. *hallianus* (De Vriese) Miquel
De Vriese 1837; Miquel 1838a.
- Encephalartos horridus* f. *lanuginosus* (Jacquin) Miquel
Jacquin 1800–09; Lehmann 1834a; Miquel 1838a.
- Encephalartos horridus* f. *latifrons* (Lehmann ex De Vriese) Miquel
De Vriese 1837; Miquel 1838a.
- Encephalartos horridus* var. *trispinosa* Hooker f.
Dyer 1965a, 1965c; Hooker, J. D. 1863.
- Encephalartos humilis* Verdoorn
Bruce et al. 1951; Dyer 1965a; Verdoorn 1949?.
- Encephalartos inopinus* Dyer
Dyer 1964b, 1965a, 1971a, 1971b, 1972b.
- Encephalartos katzeri* Hort. ex Schuster
Schuster 1932.
- Encephalartos kosiensis* Hutchinson
Henderson 1945; Hutchinson 1932, 1933.
- Encephalartos laevifolius* Stapf in(?) Burtt-Davy
Burtt-Davy 1926; Dyer 1965a; Henderson 1945.
- Encephalartos lanatus* Stapf in(?) Burtt-Davy
Burtt-Davy 1926; Dyer 1965a, 1976b; Henderson 1945; Hutchinson
1933.

- Encephalartos lanuginosus* Hort. ex Miquel
Miquel 1868, 1869b.
- Encephalartos lanuginosus* Jacquin
Jacquin 1800–09; Lehmann 1834a, 1834b; Lemaire 1864; Miquel
1843b, 1861; Regel 1876a, 1876c.
- Encephalartos latifolius* Sweet
Sweet 1826.
- Encephalartos latifrons* Lehmann ex De Vriese
De Vriese 1837; Dyer 1965a; Henderson 1945; Hutchinson 1933;
Miquel 1843b, 1847–48, 1868, 1869b.
- Encephalartos laurentianus* De Wildeman
Bois 1907; De Wildeman 1903; Eggeling 1956; Gentil 1904; Gorenflot
1955; Heenan 1977; Lebrun 1930; Melville 1957; Prain 1917; Robyns
1948.
- Encephalartos lebomboensis* Verdoorn
Dyer 1949, 1965a, 1972b; Verdoorn 1949, 1962.
- Encephalartos lehmannii* Eckl.
Regel 1865.
- Encephalartos lehmannii* Lehmann
Anon. 1868; De Vriese 1843; Dyer 1965a; Gorenflot 1955; Henderson
1945; Hutchinson 1933; Lehmann 1834a, 1834b; Lemaire 1864;
Miquel 1843b, 1847–48, 1861, 1868, 1869b; Regel 1876a.
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- Encephalartos lehmannii* var. *dentatus* Regel
Regel ———.
- Encephalartos lemarinelianus* De Wildeman & Durand
André 1904; Bois 1907; De Wildeman 1903; De Wildeman et al. 1900;
Gentil 1904.
- Encephalartos lepreschkineri* Hort. ex Schuster
Schuster 1932.
- Encephalartos longifolius* (Jacquin) Lehmann
Dyer 1965a, 1976b; Henderson 1945; Hutchinson 1933; Lehmann
1834a, 1834b; Lemaire 1864; Miquel 1843b, 1847–48, 1861, 1868,
1869b; Regel 1876a, 1876c.
- Encephalartos longifolius* var. *latifolius* Sweet ?
Bobrov 1962.
- Encephalartos macdonellii* F. Mueller ex Miquel
Johnson 1959; Miquel 1863b.
- Encephalartos mackeenii* Hort. ex Miquel
Miquel 1869a.
- Encephalartos macrophyllus* Hort. ex Schuster
Schuster 1932.
- Encephalartos manchensis* Gilliland
Paiva 1961.
- Encephalartos manikensis* (Gilliland) Gilliland
Dyer et al. 1969; Gilliland 1939; Heenan 1977; Lewis 1960–61;
Melville 1957.

- Encephalartos manikensis* F. Mueller ex Miquel
Gilliland 1938.
- Encephalartos marumii* De Vriese
De Vriese 1838–39, 1845.
- Encephalartos marunguensis* Devred
Devred 1958; Lisowski et al. 1971; Schmitz 1963.
- Encephalartos mauritianus* Miquel
Miquel 1842, 1843b.
- Encephalartos miquelii* F. Mueller
Johnson 1959; Mueller 1858–77, 1862.
- Encephalartos moorei* (F. Mueller) F. Mueller
Mueller 1858–77.
- Encephalartos munchii* Dyer & Verdoorn
Dyer et al. 1969.
- Encephalartos nanus* Lehmann
De Vriese 1837; Lehmann 1834, 1842; Miquel 1843b.
- Encephalartos natalensis* Dyer & Verdoorn
Dyer 1965a; Dyer et al. 1951; Verdoorn 1951a, 1962.
- Encephalartos ngoyanus* Verdoorn
Dyer 1949, 1965a; Verdoorn 1949, 1962.
- Encephalartos oldfieldii* Miquel
Johnson 1959; Miquel 1863b.
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- Encephalartos paucidentatus* Stapf & Burtt-Davy
Burtt-Davy 1926; Dyer 1965b, 1972a; Henderson 1945; Hutchinson
1933.
- Encephalartos pauli-guilielmi* (Hill & F. Mueller) F. Mueller
Johnson 1959; Miquel 1863b; Mueller 1859a, 1859b.
- Encephalartos pectinatus* Miquel
Lemaire 1864; Miquel 1842.
- Encephalartos poggei* Ascherson
Ascherson 1878; Heenan 1977; Melville 1957; Prain 1917; Robyns
1948.
- Encephalartos preissii* (Lehmann) F. Mueller
Mueller 1859a, 1859b.
- Encephalartos princeps* Dyer
Dyer 1965a, 1965c.
- Encephalartos pruniferus* Sweet
Sweet 1826.
- Encephalartos pterogonus* Dyer & Verdoorn
Dyer 1972b; Dyer et al. 1969.
- Encephalartos pumilus* Sweet
Sweet 1826.
- Encephalartos pungens* (Aiton) Lehmann
Aiton 1789; Gorenflot 1955; Lehmann 1834a, 1834b; Lemaire 1864;
Miquel 1843b, 1847–48, 1861, 1868, 1869b; Salisbury 1796.
- Encephalartos regalis* Hort. ex Schuster
Schuster 1932.

- Encephalartos repandus* Sweet
Sweet 1826.
- Encephalartos revolutus* Hort. ex Schuster
Schuster 1932.
- Encephalartos royenii* Miquel ex Schuster
Schuster 1932.
- Encephalartos schmitzii* Malaisse
Malaisse 1969.
- Encephalartos septentrionalis* Schweinf. ex Eichler
Andrews 1950; Eggeling 1956; Eichler 1889; Heenan 1977; Melville
1957; Prain 1917; Regel 1876c; Robyns 1948.
- Encephalartos spinulosus* Lehmann
Lehmann 1834; Miquel 1843b.
- Encephalartos spiralis* (Salisb.) Lehmann
Lehmann 1834a, 1834b; Miquel 1863b; Mueller 1859; Salisbury 1796.
- Encephalartos spiralis* var. *diplomera* F. Mueller
Johnson 1959; Mueller 1857-77.
- Encephalartos spiralis* var. *major* Miquel
Miquel 1863b.
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- Encephalartos striatus* Stapf & Burtt-Davy (?)
Burtt-Davy 1926; Henderson 1945.
- Encephalartos taxinus* Miquel
Lemaire 1864; Miquel 1842.
- Encephalartos tegulaneus* Melville
Dale et al. 1961; Heenan 1977; Melville 1957.
- Encephalartos tenuis* Miquel
Miquel 1842.
- Encephalartos transvenosus* Stapf & Burtt-Davy (?)
Burtt-Davy 1926; Dyer 1972b, 1976b; Henderson 1945; Milner 1944.
- Encephalartos tridentatus* (Willd.) Lehmann
Henderson 1945; Lehmann 1834a, 1834b; Lemaire 1864; Miquel
1843b, 1861, 1868, 1869b; Willdenow 1806.
- Encephalartos trispinosus* (Hooker) Dyer
Dyer 1965a, 1965c; Hooker 1863.
- Encephalartos umbeluziensis* Dyer
Dyer 1951, 1965a, 1972b; Lewis 1960-61; Paiva 1961.
- Encephalartos unidentatus* Regel
Miquel 1843b?; Pant et al. 1963a; Regel ———.
- Encephalartos van-den-heckei* Hort. ex Schuster.
Schuster 1932.
- Encephalartos vanhallii* De Vriese
De Vriese 1837, 1845.
- Encephalartos verschaffelti* Regel
Miquel 1870a; Regel 1875.

- Encephalartos villosus* (Gaertner) Lemaire
Dyer 1947, 1965c; Gorenflot 1955; Henderson 1945; Hennings 1890;
Hutchinson 1933; Lemaire 1868; Lewis 1960-61; Miquel 1868, 1869b;
Pearson 1906; Rattray 1913; Regel 1876a, 1876c; Verdoorn 1962.
- Encephalartos villosus* forma *hildebrandtii*
Braun et al. 1874?; Hennings 1890.
- Encephalartos villosus* var. *umbeluziensis* (Dyer) Lewis
Dyer 1951; Lewis 1960-61, 1960-61; Paiva 1961.
- Encephalartos vromii* Matte
Gentil 1907; Matte 1904.
- Encephalartos woodii* Hort.
Anon. 1908b, 1914; Dyer 1965a, 1976b; Henderson 1945; Hutchin-
son 1933; Van Wyck et al. 1981; Verdoorn 1962.
- Lepidozamia denisoni* (C. Moore & F. Mueller) Regel
Johnson 1959; Regel 1875, 1876b.
- Lepidozamia hopei* Regel
Johnson 1959; Regel 1876a.
- Lepidozamia minor* Miquel
Miquel 1869-70.
- Lepidozamia peroffskeyana* Regel
Johnson 1959; Miquel 1861; Regel 1857a&b, 1876a.
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- Lomaria coriacea* Kuntze not Schrade
Kuntze 1836.
- Lomaria eriopus* Kuntze
Kuntze 1839, 1844.
- Macrozamia amabilis* Hort. ex Bull
Bull 1847.
- Macrozamia breviformis* Hort. ex Schuster
Schuster 1932.
- Macrozamia communis* L. A. S. Johnson
Johnson 1959.
- Macrozamia corallipes* Hook. f.
Hooker, J. D. 1872a; Johnson 1959; Mohr 1877; Moore 1884; Moore
et al. 1893; Regel 1876a, 1876d.
- Macrozamia cylindrica* Bull ?
André 1881; Bull 1847; Johnson 1959.
- Macrozamia cylindrica* Moore ?
Hooker, J. D. 1872a ?; Johnson 1959; Moore 1884; Moore et al.
1893.
- Macrozamia denisonii* Moore & F. Mueller in Mueller
Johnson 1959; Moore 1884; Moore et al. 1893; Mueller 1858-77.
- Macrozamia denisonii* var. *hopei* (Hill ex C. Moore ?) Schuster
Johnson 1959; Schuster 1932.
- Macrozamia diplomera* (F. Mueller) L. A. S. Johnson
Johnson 1959; Mueller 1857-77.
- Macrozamia douglasii* Hill ex F. Mueller ?
Bailey 1883; Johnson 1959; Mueller 1882a.

- Macrozamia douglasii* Hill ex F. M. Bailey
Bailey 1883; Johnson 1959.
- Macrozamia dyeri* (F. Mueller) Gardner
Gardner 1930; Johnson 1959; Mueller 1885.
- Macrozamia elegantissima* Hort. ex Bull
Bull 1847.
- Macrozamia eximia* Bull
Bull 1847.
- Macrozamia fawcetti* Moore
Johnson 1959; Moore 1884; Moore et al. 1893.
- Macrozamia flexuosa* Moore
Johnson 1959; Moore 1884; Moore et al. 1893.
- Macrozamia fraseri* Miquel
Bentham 1873; Brunner 1825; Diels 1906; Gardner 1930; Johnson
1959; Miquel 1842, 1843b, 1861, 1868; Mueller 1859a.
- Macrozamia gigas* Hort. ex Miquel
Miquel 1869-70.
- Macrozamia heteromera* Moore
Johnson 1959; Moore 1884; Moore et al. 1893.
- Macrozamia heteromera* var. *dicranophylloides* Schuster
Johnson 1959; Schuster 1932.
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- Macrozamia heteromera* var. *glauca* Moore
Johnson 1959; Moore 1884.
- Macrozamia heteromera* var. *tenuifolia* Moore
Johnson 1959; Moore 1884.
- Macrozamia heteromera* var. *tenuifolia* Schuster
Schuster 1932.
- Macrozamia heteromera* var. *tenuifolia* f. *harmsii* Schuster
Johnson 1959; Schuster 1932.
- Macrozamia hilli* Bull
Bull 1847.
- Macrozamia hopei* Hill ex C. Moore ?
Bailey 1886; Johnson 1959; Moore 1884.
- Macrozamia hopii* Hill ex F. M. Bailey
Bailey 1886; Johnson 1959.
- Macrozamia littoralis* Liebm. ex Thiselton-Dyer
Thiselton-Dyer 1884.
- Macrozamia lucida* L. A. S. Johnson
Johnson 1959.
- Macrozamia macdonnellii* (F. Mueller ex Miquel) De Candolle
Cleland 1930; De Candolle 1868; Ewart et al. 1917; Johnson 1959;
Lothian 1958; Miquel 1863b, 1868; Mueller 1858-77.
- Macrozamia mackenzii* Hort. ex Masters
Johnson 1959; Masters 1877; Moore 1878a.
- Macrozamia macleayi* Miquel
Johnson 1959; Miquel 1868.

- Macrozamia miquelii* (F. Mueller) De Candolle
Bentham 1873; De Candolle 1868; Johnson 1959; Miquel 1868; Mueller 1858-77, 1862.
- Macrozamia moorei* F. Mueller
Anon. 1913; Chamberlain 1913; Johnson 1959; Moore et al. 1893; Mueller 1858-77.
- Macrozamia mountperriensis* F. M. Bailey
Bailey 1886; Johnson 1959.
- Macrozamia oldfieldii* (Miquel) De Candolle
De Candolle 1868; Johnson 1959; Miquel 1868.
- Macrozamia pauli-guilielmi* Hill in(?) Mueller
Bentham 1873; Johnson 1959; Miquel 1868; Mohr 1877; Moore 1884; Moore et al. 1893; Mueller 1858-77; Regel 1876a, 1876d.
- Macrozamia pauli-guilielmi* ssp. *flexuosa* (Moore) L. A. S. Johnson
Johnson 1959; Moore 1884.
- Macrozamia pauli-guilielmi* ssp. *plurinervia* L. A. S. Johnson
Johnson 1959.
- Macrozamia pectinata* Liebm. ex Thiselton-Dyer
Thiselton-Dyer 1884.
- Macrozamia peroffskyana* (Regel) Miquel
Miquel 1868.
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- Macrozamia perowskiana* Auct
Bentham 1873; Maiden 1899; Mueller 1859a.
- Macrozamia platyrachis* Bailey
Bailey 1898; Johnson 1959.
- Macrozamia plumosa* Mohr
Gorenflot 1955; Johnson 1959; Mohr 1877.
- Macrozamia preissii* Lehmann
Heinzel 1845; Johnson 1959; Lehmann 1834a, 1842, 1844 ?; Miquel 1843b; Regel 1876a, 1876d.
- Macrozamia preissii* ssp. *dyeri* (F. Mueller) Schuster
Johnson 1959; Mueller 1885; Schuster 1932.
- Macrozamia pulchra* Bull
Bull 1847.
- Macrozamia pungens* Lehmann ex Schuster
Schuster 1932.
- Macrozamia riedlei* (Fisch. ex Gaudich.) Gardner
Gardner 1930; Gaudichaud-Beaupré 1826; Johnson 1959.
- Macrozamia secunda* Moore
Johnson 1959; Moore 1884; Moore et al. 1893.
- Macrozamia secunda* var. *dichotoma* Moore & Betche
Johnson 1959; Moore et al. 1893.
- Macrozamia spiralis* (Salisb.) Miquel
Bennett 1871; Bentham 1873; Blanchard 1895; Florin 1956; Gorenflot 1955; Hutchinson 1924; Johnson 1959; Lehmann 1834; Miquel 1843b, 1861, 1868; Moore 1884; Moore et al. 1893; Regel 1876a, 1876d; Salisbury 1796.

- Macrozamia spiralis* var. *cylindrica* (Moore) Maiden & Betche
Johnson 1959; Maiden et al. 1916; Moore 1884 ?.
- Macrozamia spiralis* var. *flexuosa* (Moore) Maiden & Betche
Johnson 1959; Maiden et al. 1916; Moore 1884.
- Macrozamia spiralis* var. *fraseri* Regel
Johnson 1959; Regel 1876a.
- Macrozamia spiralis* var. *heteromera* (Moore) Maiden & Betche
Johnson 1959; Maiden et al. 1916; Moore 1884.
- Macrozamia spiralis* var. *secunda* (Moore) Maiden & Betche
Johnson 1959; Maiden et al. 1916; Moore 1884.
- Macrozamia stenomera* L. A. S. Johnson
Johnson 1959.
- Macrozamia tenuifolia* Hort. ex Miquel
Miquel 1869–70.
- Macrozamia tridentata* (Willd.) Regel
Johnson 1959; Lehmann 1834a; Moore 1884; Regel 1876a, 1876d;
Willdenow 1806.
- Macrozamia tridentata* ssp. *cylindrica* (C. Moore) Schuster
Johnson 1959; Schuster 1932.
- Macrozamia tridentata* ssp. *cylindrica* var. *corallipes* (Hook f.) Schuster
Johnson 1959; Schuster 1932.
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- Macrozamia tridentata* ssp. *cylindrica* var. *corallipes* f. *dielsii* Schuster
Johnson 1959; Schuster 1932.
- Macrozamia tridentata* ssp. *cylindrica* var. *corallipes* f. *vavilovii* Schuster
Johnson 1959; Schuster 1932.
- Macrozamia tridentata* ssp. *cylindrica* var. *pungens* (Aiton) Schuster
Johnson 1959; Schuster 1932.
- Macrozamia tridentata* ssp. *cylindrica* var. *pungens* f. *diplomera* (F. Muel-
ler) Schuster
Johnson 1959; Schuster 1932.
- Macrozamia tridentata* ssp. *cylindrica* var. *pungens* f. *hillii* Schuster
Johnson 1959; Schuster 1932.
- Macrozamia tridentata* ssp. *cylindrica* var. *secunda* (C. Moore) Schuster
Johnson 1959; Schuster 1932.
- Macrozamia tridentata* ssp. *mountperriensis* (F. M. Bailey) Schuster
Johnson 1959; Schuster 1932.
- Macrozamia tridentata* ssp. *mountperriensis* f. *milkaui* Schuster
Johnson 1959; Schuster 1932.
- Macrozamia tridentata* ssp. *mountperriensis* f. *oblongifolia* (Regel) Schus-
ter
Johnson 1959; Schuster 1932.
- Macrozamia tridentata* ssp. *mountperriensis* var. *douglasii* (F. Mueller)
Schuster
Johnson 1959; Schuster 1932.
- Macrozamia tridentata* ssp. *mountperriensis* var. *mackenzii* (Hort. ex
Mast.) Schuster
Johnson 1959; Schuster 1932.

- Macrozamia tridentata* ssp. *mountperriensis* var. *miquelii* (F. Mueller)
Schuster
Johnson 1959; Schuster 1932.
- Macrozamia tridentata* var. *oblongifolia* Regel
Johnson 1959; Regel 1876a.
- Microcycas calocoma* (Miquel) De Candolle
Caldwell 1907; Caldwell et al. 1907; Carabia 1941; Cendrero 1940;
De Candolle 1868; Foster et al. 1942; Leon 1946; Lucas et al. 1978;
Regel 1876f; Seifrizz 1943.
- Platyzamia rigida* Zuccarini
De Luca et al. 1982; Vovides et al. 1983; Zuccarini 1845.
- Stangeria eriopus* (Kuntze) Nash
Dyer 1965a; Heine 1968; Hutchinson 1933; Kuntze 1839, 1844; Nash
1909; Vorster et al. 1974a.
- Stangeria katzeri* Regel
Pearson 1906; Regel 1874, 1876a, 1876f.
- Stangeria paradoxa* Bull
Strauss 1914.
- Stangeria paradoxa* T. Moore
Chamberlain 1916; Hooker, J. D. 1859; Miquel 1861, 1868, 1869b;
Moore 1853; Pearson 1906; Regel 1876a, 1876f.
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- Stangeria paradoxa* var. *shizodon* (Bull ?) Strauss
Bull 1872 ?; Strauss 1914.
- Stangeria paradoxa* var. *typica* Regel
- Stangeria schizodon* Bull
Bull 1872.
- Stangeria sanderiana* Hort. ex Schuster
Schuster 1932.
- Zamia acuminata* Oersted ex Thiselton-Dyer
Gomez 1982a; Norstog 1976; Thiselton-Dyer 1884.
- Zamia allison-armourii* Millspaugh
Millspaugh 1900; Urban 1920; Zanoni 1982.
- Zamia altensteinii* Heynhold
Heynhold 1841.
- Zamia amplifolia* Bull ex Masters
Masters 1878.
- Zamia amplifrons* Hort. ex Schuster
Schuster 1932.
- Zamia angustifolia* Jacquin
Britton 1909; Geigel 1979; Grisebach 1864; Jacquin 1789; Leon 1946;
Liogier 1969; Loddiges 1818; Long et al. 1971; Miquel 1843b, 1861,
1868, 1869b; Regel 1878b; Willdenow 1806.
- Zamia angustissima* Miquel
Miquel 1861, 1868, 1869b.
- Zamia atropurpurea* Parment ex Miquel
Miquel 1861.

- Zamia aurea* Hort. ex Miquel
Miquel 1848a.
- Zamia baraquiniana* Hort. ex Regel
Anon. 1868; Regel 1876a, 1878b.
- Zamia beeldsnijderiana* Beeldsnijder
Beeldsnijder ———; Pritzel 1866.
- Zamia boliviana* (Brongniart) De Candolle
Brongniart 1846; De Candolle 1868; Ducke 1935; Regel 1876a,
1878b.
- Zamia brachyphylla* Hort. ex Schuster
Schuster 1932.
- Zamia brongniartii* Weddell
Eichler 1863; Miquel 1861, 1868, 1869b; Moore 1895; Weddell 1850.
- Zamia caffra* Thunberg
Anon. 1883a; Leon de Lunaret 1880; Thunberg 1775, 1782, 1784,
1800.
- Zamia calcicola* Britton ex Schuster
Schuster 1932.
- Zamia calocoma* Miquel
Miquel 1851a, 1861, 1868, 1869b.
- Zamia caracasana* Loddiges
Loddiges ———; Miquel 1843b.
- Zamia chamberlainii* Schuster
Schuster 1932.
- Zamia chigua* Seemann
Gomez 1982a, 1982b; Norstog 1976; Regel 1876a, 1878b; Seemann
1852–57.
- Zamia concinna* Par. ex Wendland
Wendland 1854.
- Zamia corallipes* Verschaffelt
Verschaffelt 1873–74.
- Zamia corsoniana* Don
Don 1842; Louden 1842.
- Zamia crassifolia* Moore
Moore 1877.
- Zamia cupatiensis* Ducke
Ducke 1922; Schultes 1953.
- Zamia cycadifolia* Jacquin, Brunner, Miquel or Thisleton-Dyer
Brunner 1825; Jacquin 1800–09; Miquel 1843b; Thisleton-Dyer 1884;
Vovides et al. 1983c; Willdenow 1806.
- Zamia cycadis* Linné
Linné 1782.
- Zamia debilis* L. f. ex Aiton
Aiton 1789; Geigel 1979; Liogier 1969; Loddiges 1818; Miquel 1843b,
1847–48, 1861, 1868, 1869b; Newell 1985; Urban 1920; Willdenow
1806.

- Zamia debilis* L. f. ex Salisbury
Salisbury 1796.
- Zamia denisonii* C. Moore & Mueller ?
- Zamia dentata* Angl. ex Link
Link 1822.
- Zamia dentata* Voigt
Voigt 1828.
- Zamia elegans* Yates
Yates 1849.
- Zamia elegantissima* Hort. ex Schuster
Schuster 1932.
- Zamia elliptica* Lodd. ex Miquel
Miquel 1843b.
- Zamia elongata* Heynhold
Heynhold 1844.
- Zamia eriolepis* Hort. ex Thiselton-Dyer
Thiselton-Dyer 1884.
- Zamia erosa* Cook & Collins
Cook et al. 1903.
- Zamia fairchildiana* Gómez
Gomez 1982a.
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- Zamia farinosa* Corda ex Schuster
Schuster 1932.
- Zamia ferruginea* Hort. ex Schuster
Schuster 1932.
- Zamia fischeri* Miquel
Lemaire 1845; Miquel 1847–48, 1868, 1869b; Regel 1878b; Vovides et al. 1983c.
- Zamia floridana* De Candolle
Aiton 1789; De Candolle 1868; Hutchinson 1924; Lucas et al. 1978; Peterson 1948; Read 1967; Ward 1978.
- Zamia forgetiana* Hort. ex Schuster
Schuster 1932.
- Zamia fraseri* Van Houtte ex Regel
Regel 1876a, 1876d.
- Zamia friderici-guilielmi* Parment ex Miquel
Lehmann 1834; Miquel 1861.
- Zamia furfuracea* L. f. in Aiton
Aiton 1789; Miquel 1843b, 1861, 1868, 1869b; Regel 1878b; Smith 1961; Vovides et al. 1983c.
- Zamia furfuracea* var. *trewii* De Candolle
De Candolle 1868.
- Zamia fusca* Paull. ex Regel
Regel 1876a, 1876f.
- Zamia galeotti* De Vriese
De Vriese 1845.

- Zamia glabra* Hort. ex Schuster
Schuster 1932.
- Zamia glaucescens* Hort. ex Schuster
Schuster 1932.
- Zamia gleina* Hort. ex Miquel
Miquel 1843b.
- Zamia gracilis* Karw. ex Schuster
Schuster 1932.
- Zamia grandis* Hort. ex Lindley
Lindley 1865.
- Zamia guggenheimiana* Carabia
Carabia 1941; Geigel 1979.
- Zamia gutierrezii* Sauvalle
Carabia 1941; Geigel 1979; Sauvalle 1868.
- Zamia herrerae* Calderón & Standley in Standley
Standley 1924.
- Zamia horrida* Jacquin
Jacquin 1800–09.
- Zamia horrida* Lodd. ex Miquel
Miquel 1838?.
- Zamia houtteana* Dyer ex Schuster
Schuster 1932.
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- Zamia humilis* Salisbury
Salisbury 1796.
- Zamia hybrida* Cornault
Cornault 1887.
- Zamia inermis* Vovides, Rees & Vázquez-Torres
Vovides 1983; Vovides et al. 1983c.
- Zamia insignis* Hort. ex Schuster
Schuster 1932.
- Zamia integrifolia* A. Gray ex De Candolle
De Candolle 1868.
- Zamia integrifolia* Aiton
Aiton 1789; Barker 1930; Carson 1842; Chapman 1897b; Diddell
1923; Geigel 1979; Grisebach 1864; Hardin 1971; Leon 1946; M'Bride
1894; Maggiola 1974; Miquel 1843b, 1847–48, 1861, 1868, 1869b;
Moscoso 1943; Moya et al. 1957; Pursh 1814; Richard 1826; Ricourt
y Regus 1947; Sims 1816, 1818; Smith 1975a, 1975b, 1978b; Urban
1920; Willdenow 1806.
- Zamia jirijirimensis* Schultes
Schultes 1953.
- Zamia kalbreyeri* Dammer ex Schuster
Schuster 1932.
- Zamia katzeri* Regel ex Schuster
Schuster 1932.
- Zamia katzeriana* (Regel) Rettig
Regel 1876a; Rettig 1896.

- Zamia kickxii* Miquel
Geigel 1979; Leon 1946; Miquel 1843b, 1868, 1869b; Regel 1876a, 1878b.
- Zamia laeta* Salisbury
Salisbury 1796.
- Zamia lanuginosa* Jacquin
Jacquin 1800–09.
- Zamia latifolia* Lodd. ex Miquel
Miquel 1849, 1861; Regel 1878b.
- Zamia latifoliolata* Prenleloup
Geigel 1979; Leon 1946; Liogier 1969; Prenleloup 1872; Seifriz 1943; Urban 1920; Zanoni 1982.
- Zamia latifoliolata* X *Z. floridana*
Chamberlain 1926b.
- Zamia latifoliolata* X *Z. monticola*
Chamberlain 1926b.
- Zamia latifoliolata* X *Z. pumila*
Chamberlain 1926b.
- Zamia lawsoniana* Thiselton-Dyer
Hemsley 1884; Thiselton-Dyer 1884.
- Zamia lecointei* Ducke
Agostini 1972; Ducke 1915, 1922, 1935.
- Zamia lehmanniana* Eckl. & Zeyh. ex Ecklon
Ecklon 1833; Lehmann 1834a.
- Zamia leiboldii* Miquel
Miquel 1847–48; Regel 1876a, 1878b; Vovides et al. 1983c.
- Zamia leiboldii* var. *angustifolia* Regel
Regel 1876a.
- Zamia leiboldii* var. *latifolia* Regel
Regel 1876a.
- Zamia lindenii* Regel ex André
André 1875; Moore 1878a.
- Zamia lindleyi* Warszewicz ex Dietrich
Dietrich 1851; Miquel 1861, 1868, 1869b; Seemann 1852–57; Warszewicz 1845 ?.
- Zamia linearis* Miquel ex Schuster
Schuster 1932.
- Zamia linifolia* Hort. Paull. ex Regel
Regel 1878b.
- Zamia linleyana* Wendland
Wendland 1854.
- Zamia loddigesii* Miquel
Miquel 1843b, 1843c, 1847–48, 1861, 1868, 1869b; Pittier 1926; Regel 1876a, 1878b; Standley et al. 1958; Vovides et al. 1983c.
- Zamia loddigesii* var. *angustifolia* Regel
Regel 1876, 1878b ?; Vovides et al. 1983.

- Zamia loddigesii* var. *cycadifolia* (Dyer) Schuster
Schuster 1932; Thisleton-Dyer 1883b?; Vovides et al. 1983c.
- Zamia loddigesii* var. *latifolia* Schuster
Schuster 1932; Vovides et al. 1983c.
- Zamia loddigesii* var. *leiboldii* (Miquel) De Candolle
De Candolle 1868
- Zamia loddigesii* var. *longifolia* Schuster
Schuster 1932; Vovides et al. 1983c.
- Zamia loddigesii* var. *obtusifolia* Regel
Regel 1857a & b
- Zamia loddigesii* var. *spartea* (De Candolle) Schuster
De Candolle 1868; Schuster 1932; Vovides et al. 1983c.
- Zamia longifolia* Jacquin
Jacquin 1800–09.
- Zamia lucayana* Britton
Britton 1909; Hill 1969.
- Zamia mackenii* Hort. ex Miquel
Miquel 1868–69.
- Zamia macleani* Regel
Regel 1876a, 1876f.
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- Zamia macleanii* Hort. ex Schuster
Schuster 1932.
- Zamia macrophylla* Parment ex Miquel
Miquel 1861.
- Zamia madida* Schultes
Schultes 1958.
- Zamia maeleni* ? Miquel
De Luca et al. 1982; Miquel 1844b, 1847, 1848.
- Zamia manicata* Linden ex Regel
Regel 1876a, 1878a.
- Zamia media* Jacquin
Barker et al. 1930; Geigel 1979; Jacquin 1798; Leon 1946; Maggiola
1974; Miquel 1843b, 1861, 1868, 1869b; Moscoso 1943; Moya et al.
1957; Regel 1876a, 1878b; Ricourt y Regus 1947; Smith 1961; Urban
1920; Willdenow 1806.
- Zamia media* Sims
Sims 1816.
- Zamia mexicana* Hort. ex Miquel
Miquel 1861.
- Zamia miqueli* Adelaide ex Regel
Regel 1876a, 1876d.
- Zamia montana* A. Braun
Braun 1875.
- Zamia monticola* Chamberlain
Chamberlain 1926a; Standley et al. 1958.

- Zamia multifoliolata* De Candolle
De Candolle 1868; Geigel 1979; Grisebach 1866; Leon 1946; Regel 1878b.
- Zamia mucicata* Linden ex Regel
Regel 1878b.
- Zamia muricata* Willdenow
Klotzsch 1847; Miquel 1843b, 1847-48, 1861, 1868, 1869b; Regel 1878b; Standley et al. 1958; Willdenow 1806.
- Zamia muricata* var. *angustifolia* Miquel
Miquel 1842.
- Zamia muricata* var. *obtusifolia* Miquel
Miquel 1843a.
- Zamia muricata* var. *picta* Van Houtte
Van Houtte 1846.
- Zamia muricata* var. *picta* Miquel
Miquel 1848.
- Zamia nana* Hort. ex Miquel
Miquel 1843b.
- Zamia nigra* Hort. ex Schuster
Schuster 1932.
- Zamia noeffiana* Linden ex Wittmack
Wittmack 1897.
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- Zamia obidensis* Ducke
Ducke 1922, 1935.
- Zamia obliqua* A. Braun
Braun 1875.
- Zamia obliqua* Regel ex Ducos
Ducos 1877; Gomez 1982b; Hooker, J. D. 1897; Regel 1878b.
- Zamia occidentalis* Loddiges
Loddiges ———.
- Zamia ortgiesii* (Regel?) A. Braun ex Schuster
Schuster 1932.
- Zamia ottonis* Miquel
Geigel 1979; Klotzsch 1847; Leon 1946; Miquel 1843b, 1868, 1869b; Otto et al. 1844; Regel 1876a, 1878b.
- Zamia pallida* Salisburg
Salisbury 1796.
- Zamia parasitica* Poepp. ex Eichler
Eichler 1863.
- Zamia picta* Thiselton-Dyer in Hemsley
Helmsley 1884; Thiselton-Dyer 1884.
- Zamia poeppigiana* Martius & Eichler
Eichler 1863; Miquel 1868, 1869b; Regel 1876a, 1878b.
- Zamia portoricensis* Urban
Cook et al. 1903; Urban 1899.
- Zamia potemkinii* Miquel
Miquel 1868?, 1869.

- Zamia princeps* Bull ex Thisleton-Dyer
Thisleton-Dyer 1884.
- Zamia prunifera* Don
Don 1830.
- Zamia prunifera* Loddiges
Loddiges ———.
- Zamia pseudomonticola* Gomez
Gomez 1982a.
- Zamia pseudo-parasitica* Yates in Seemann
Dressler 1975; Gómez 1982a; Holdridge et al. 1975; Miquel 1861,
1868, 1869b; Norstog 1976; Regel 1876a, 1878b; Seemann 1852-57.
- Zamia pseudo-parasitica* var. *latifolia*. Schuster
Schuster 1932.
- Zamia pumila* Hort. ex Regel
Regel 1878b.
- Zamia pumila* L.
Aiton 1789; Carabia 1941; Commelijn 1697; Eckenwalder 1980a;
Florin 1956; Geigel 1979; Leon 1946; Long et al. 1971; Maggiola
1974; Miquel 1843b, 1847-48, 1861, 1868; Moscoso 1943; Moya et al.
1957; Newell 1983; Regel 1876a; Rickett et al. 1959; Ricourt y Regus
1947; Smith 1961; Stafleu 1978; Thunberg 1782; Urban 1920; Zanoni
1982.
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- Zamia pumila* X *Encephalartos villosus*
Chamberlain 1926b.
- Zamia pumila* X *Z. latifoliolata*
Chamberlain 1926b.
- Zamia pungens* Aiton
Aiton 1789; Lehmann 1834; Willdenow 1806.
- Zamia pungens* Hort. ex Miquel
Miquel 1843b.
- Zamia pungens* Linn. f. ex Salisbury
Salisbury 1796.
- Zamia purpurea* Vovides, Rees & Vázquez-Torres
Vovides 1983; Vovides et al. 1983c.
- Zamia pygmaea* Sims
Carabia 1941; Geigel 1979; Leon 1946; Liogier 1969; Miquel 1843b,
1868, 1869b; Regel 1876a, 1878b; Sims 1815.
- Zamia religiosa* Usteri
Usteri 1919.
- Zamia repand* Don
Don 1830.
- Zamia repand* Loddiges
Loddiges ———.
- Zamia rigida* Karw. ex Schuster
Schuster 1932.
- Zamia roezlii* Regel (or Linden)
André 1873; Linden 1873; Moore 1878a; Regel 1873a, 1873b.

- Zamia rotundifolia* Hort. ex Schuster
Schuster 1932.
- Zamia serrulata* Lodd. ex Miquel
Miquel 1843b.
- Zamia sieboldii* Anon.
Anon. 1878.
- Zamia silicea* Britton
Britton 1916; Geigel 1979; Leon 1946; Seifriz 1943.
- Zamia silvicola* Small
Small 1926.
- Zamia skinneri* Warszewicz ex Dietrich
Dietrich 1851; Gómez 1982a, 1982b; Holdridge et al. 1975; Hooker,
W. J. 1861; Miquel 1861, 1868, 1869b; Norstog 1976; Seemann 1852-
57, 1862; Warszewicz 1845.
- Zamia spadicea* Karw. ex Schuster
Schuster 1932.
- Zamia sparteae* De Candolle
De Candolle 1868; Regel 1876a, 1878b; Thiselton-Dyer 1884; Vovides
et al. 1983c.
- Zamia spinosa* Loddiges
Loddiges ———.
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- Zamia spinosa* Miquel
Miquel 1843b.
- Zamia spinosissima* Hort. ex Miquel
Miquel 1843b.
- Zamia spinulosa* Heynhold
Heynhold 1844.
- Zamia spinulosa* Hort. ex Miquel
Miquel 1843b.
- Zamia spiralis* Brown
Brown 1810.
- Zamia spiralis* Salisbury
Salisbury 1796.
- Zamia splendens* Schutzman
Schutzman 1984.
- Zamia stricta* Grisebach
Grisebach 1866.
- Zamia stricta* Miquel
Miquel 1851b, 1861, 1868, 1869b.
- Zamia subcoriacea* Wendl. ex Schuster
Schuster 1932.
- Zamia sylvatica* Chamberlain
Chamberlain 1926a.
- Zamia tenuifolia* Fisch. ex Miquel
Miquel 1843b.

Zamia tenuis Willdenow

Backer et al. 1964; Miquel 1843b, 1847–48, 1861, 1868; Regel 1876a, 1878b; Willdenow 1806.

Zamia terrestris Hort. ex Thiselton-Dyer

Thiselton-Dyer 1884.

Zamia tonkinensis Linden et Rodigas

Rodigas 1885.

Zamia tricuspidata Hort.

Schelhase 1829.

Zamia tridentata Willdenow

Lehmann 1834a; Willdenow 1806.

Zamia tuerckheimii J. D. Smith

Donnell Smith 1903; Standley et al. 1958.

Zamia ulei Dammer

Dammer 1906.

Zamia ulei ssp. *lecointei* (Ducke) Ducke

Ducke 1915, 1922, 1935.

Zamia umbrosa Small

Small 1921; Ward 1978.

Zamia unidentata Hort. ex Miquel

Miquel 1843b.

Zamia van-houttei Hort. ex Schuster

Schuster 1932.

Zamia variegata Warszewicz

Warszewicz 1848.

Zamia verbrugiana Hort. ex Schuster

Schuster 1932.

Zamia vernicosa Hort.

Anon. 1868.

Zamia verschaffeltii Miquel

Miquel 1868–69, 1870a; Regel 1875.

Zamia verschaffeltii forma *latifolia* Schuster

Schuster 1932.

Zamia vestita Herb. Van Royen ex De Candolle

De Candolle 1868.

Zamia vestita Van Houtte

Van Houtte 1842, 1846.

Zamia villosa Gaertner

Gaertner 1788; Lemaire 1868.

Zamia vroomi Hort. ex Gentil

Gentil 1907; Matte 1904.

Zamia wallisii Veitch ex A. Braun

Braun 1875; Hooker, J. D. 1890a.

Zamia wielandii Schuster

Schuster 1932.

Zamia yatesii Miquel

Miquel 1861, 1868, 1869b.

APPENDIX

Contributed Papers 36th Annual AIBS Meeting University of Florida
Gainesville Fla 11-15 August 1985.

BRECKON, GARY J. and VIVIAN NEGRON-ORTIZ. Depto. de Biología, Universidad de Puerto Rico, Mayaguez. Leaf cone and production in *Zamia debilis* in Puerto Rico.

DEHGAN, BIJAN and NANCY B. DEHGAN. University of Florida, Gainesville. Pollen morphology and taxonomy of Cycadales.

NEGRON-ORTIZ, VIVIAN and GARY J. BRECKON. Depto. de Biología, Universidade de Puerto Rico, Mayaguez. Seed dispersal, viability and survivorship in *Zamia debilis* L. in Puerto Rico.

ORNDUFF, ROBERT. University of California, Berkeley. Sex ratios in cycads.

SCHUTZMAN, BART and ANDREW P. VOVIDES. University of Florida, Gainesville and Instituto Nacional de Investigaciones sobre Recursos Bioticos, Xalapa, Mexico. Phenetic and other systematic studies of the *Zamia Loddigesii*/*Z. furfuracea* complex.

STEVENSON, DENNIS W. Barnard College of Columbia University, NY and New York Botanical Garden, NY. Distribution and systematics of *Ceratozamia* (Zamiaceae).

STEVENSON, DENNIS W. Barnard College of Columbia University, NY and New York Botanical Garden, NY. A proposed classification of the Cycadales.

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By F. R. Ganders and K.M. Nagata
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- A New Subspecies of Bidens (Asteraceae) from Maui, Vol. 2, No. 2, 17-21.
By H. St. John, K. M. Nagata and F. R. Ganders
- Relationships and Floral Biology of *Bidens cosmoides* (Asteraceae),
Vol. 2, No. 3, 23-31.
By F. R. Ganders and K. M. Nagata Vols. 2:1, 2:2, & 2:3 \$8.00

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