

Indiana Angiosperm Plant Families

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The benchmark publication for documentation of the species and infraspecies of plants found in Indiana is Charles C. Deam's *Flora of Indiana* (1940). The family arrangement that Deam used has undergone some changes, most notably compared with the one used in Gleason and Cronquist's *Manual of Vascular Plants* (1991). Since Gleason and Cronquist is the manual that most people have used over the past several years for identifying Indiana plants, that is the family system most of us are familiar with. Work being done by the Angiosperm Phylogeny Group (APG) is again changing our understanding of the family arrangement for genera of Indiana Angiosperms. Up until now, the *Flora of North America* (FNA) project had been using the family system used in Gleason and Cronquist with minor modifications, but FNA has now begun switching to the one being developed by APG. Because the APG system continues to be a work in progress, family organization of both APG and FNA listed in the following two tables may change somewhat as that work continues. Recent references for publications listing research done by APG, and the APG website are given below. These do not always agree on which is the appropriate family name to be used.

The first column in Table 1 is an alphabetical listing of the families used for Indiana plants that are listed in Deam's *Flora of Indiana* (1940). Families that had Indiana records published later are alphabetized by the family name used in Gleason and Cronquist's *Manual of Vascular Plants* (1999). The four columns list families used in the following publications:

Deam, C. C. 1940. *Flora of Indiana*. Indianapolis, Department of Conservation.

Gleason, Henry A., and Arthur Cronquist. 1991. *Manual of Vascular Plants of Northeastern United States and Adjacent Canada*. New York Botanical Garden.

Flora of North America (FNA). 30 volumes, partially published. London and New York, Oxford

University Press. The number of the volume the family is found in follows the family name. Those volume numbers followed by an asterisk (*) are ones that are not yet in print.

Angiosperm Phylogeny Group (APG) references:

Stevens, P. F. (2001 onwards). Angiosperm Phylogeny Website. Version 9, June 2008 [and more or less continuously updated since]. <http://www.mobot.org/mobot/research/apweb>

Angiosperm Phylogeny Group. 2003. An update of the Angiosperm Phylogeny Group classification for the orders and families of flowering plants: APG II. *Botanical Journal of the Linnean Society* 141:399–436.

Soltis, Douglas E., Pam S. Soltis, Peter K. Endress, and Mark W. Chase. 2005. *Phylogeny and Evolution of Angiosperms*. Sunderland, MA, Sinauer Associates.

Simpson, Michael G. 2006. *Plant Systematics*. Oxford, Elsevier.

Judd, Walter S., Christopher S. Campbell, Elizabeth A. Kellogg, Peter F. Stevens, and Michael J. Donoghue. 2008. *Plant Systematics: A Phylogenetic Approach*, 3rd ed. Sunderland, MA, Sinauer.

Family names inside braces {} have only excluded species in Indiana.

Deam

Acanthaceae

Aceraceae

Aizoaceae

Alismaceae

Altingiaceae (*Liquidambar*)

Gleason & Cronquist

Acanthaceae

Aceraceae

Molluginaceae

Alismataceae

Hamamelidaceae

FNA

Acanthaceae (18*)

Sapindaceae (13*)

Molluginaceae (4)

Alismataceae (22)

Hamamelidaceae (3)

APG

Acanthaceae

Sapindaceae

Molluginaceae

Alismataceae

Altingiaceae

Amaranthaceae	Amaranthaceae	Amaranthaceae (4)	Amaranthaceae
Amaryllidaceae (<i>Hypoxis</i>)	Liliaceae	Liliaceae (26)	Hypoxidaceae
Amaryllidaceae (<i>Manfreda</i> as <i>Agave</i>)	Agavaceae	Agavaceae (26)	Agavaceae
Amaryllidaceae (<i>Narcissus</i> , <i>Zephyranthes</i>)	Liliaceae	Liliaceae (26)	Amaryllidaceae
Anacardiaceae	Anacardiaceae	Anacardiaceae (13*)	Anacardiaceae
Anonaceae {sic}	Annonaceae	Annonaceae (3)	Annonaceae
Apocynaceae	Apocynaceae	Apocynaceae (14*)	Apocynaceae
Aquifoliaceae	Aquifoliaceae	Aquifoliaceae (18*)	Aquifoliaceae
Araceae (except <i>Acorus</i>)	Araceae	Araceae (22)	Araceae
Araceae (<i>Acorus</i>)	Acoraceae	Acoraceae (22)	Acoraceae
Araliaceae	Araliaceae	Araliaceae (13*)	Araliaceae
Aristolochiaceae	Aristolochiaceae	Aristolochiaceae (3)	Aristolochiaceae
Asclepiadaceae	Asclepiadaceae	Apocynaceae (14*)	Apocynaceae
Balsaminaceae	Balsaminaceae	Balsaminaceae (13*)	Balsaminaceae
Berberidaceae	Berberidaceae	Berberidaceae (3)	Berberidaceae
Betulaceae	Betulaceae	Betulaceae (3)	Betulaceae
Bignoniaceae	Bignoniaceae	Bignoniaceae (18*)	Bignoniaceae
Boraginaceae	Boraginaceae	Boraginaceae (15*)	Boraginaceae
Not in (<i>Buddleia</i>)	Buddlejaceae	Scrophulariaceae (17*)	Scrophulariaceae
Not in (<i>Butomus</i>)	Butomaceae	Butomaceae (22)	Butomaceae
Not in (<i>Pachysandra</i>)	Buxaceae	Buxaceae (10*)	Buxaceae
Cactaceae	Cactaceae	Cactaceae (4)	Cactaceae
Callitrichaceae	Callitrichaceae	Plantaginaceae (17*)	Plantaginaceae
Campanulaceae	Campanulaceae	Campanulaceae (18*)	Campanulaceae
{Calycanthaceae}	{Calycanthaceae}	{Calycanthaceae} (3)	{Calycanthaceae}
Capparidaceae (<i>Cleome</i> , <i>Polanisia</i>)	Capparaceae	Capparaceae (7*)	Brassicaceae or Cleomaceae
Caprifoliaceae	Caprifoliaceae	Caprifoliaceae (18*)	Caprifoliaceae
Caryophyllaceae	Caryophyllaceae	Caryophyllaceae (5)	Caryophyllaceae
Celastraceae	Celastraceae	Celastraceae (12*)	Celastraceae
Ceratophyllaceae	Ceratophyllaceae	Ceratophyllaceae (3)	Ceratophyllaceae
Chenopodiaceae	Chenopodiaceae	Chenopodiaceae (4)	Amaranthaceae
Cistaceae	Cistaceae	Cistaceae (6*)	Cistaceae
Commelinaceae	Commelinaceae	Commelinaceae (22)	Commelinaceae
Compositae	Asteraceae	Asteraceae (19-21)	Asteraceae
Convolvulaceae (except <i>Cuscuta</i>)	Convolvulaceae	Convolvulaceae (14*)	Convolvulaceae
Convolvulaceae (<i>Cuscuta</i>)	Cuscutaceae	Convolvulaceae (14*)	Convolvulaceae
Cornaceae	Cornaceae	Cornaceae (12*)	Cornaceae
Crassulaceae (except <i>Penthorum</i>)	Crassulaceae	Crassulaceae (8*)	Crassulaceae
Crassulaceae (<i>Penthorum</i>)	Saxifragaceae	Penthoraceae (8*)	Penthoraceae
Cruciferae	Brassicaceae	Brassicaceae (8*)	Brassicaceae
Cucurbitaceae	Cucurbitaceae	Cucurbitaceae (6*)	Cucurbitaceae
Cyperaceae	Cyperaceae	Cyperaceae (23)	Cyperaceae
Dioscoreaceae	Dioscoreaceae	Dioscoreaceae (26)	Dioscoreaceae
Dipsacaceae	Dipsacaceae	Dipsacaceae (18*)	Caprifoliaceae
Droseraceae	Droseraceae	Droseraceae (6*)	Droseraceae
Ebenaceae	Ebenaceae	Ebenaceae (8*)	Ebenaceae
Not in	Elaeagnaceae	Elaeagnaceae (11*)	Elaeagnaceae
{Elatinaceae}	{Elatinaceae}	{Elatinaceae} (6*)	{Elatinaceae}
Ericaceae (except <i>Monotropa</i> , <i>Pyrola</i>)	Ericaceae	Ericaceae (8*)	Ericaceae
Ericaceae (<i>Monotropa</i>)	Monotropaceae	Ericaceae (8*)	Ericaceae
Ericaceae (<i>Pyrola</i>)	Pyrolaceae	Ericaceae (8*)	Ericaceae
Eriocaulaceae	Eriocaulaceae	Eriocaulaceae (22)	Eriocaulaceae
Not in (New: Eucommiaceae)	Not in	Eucommiaceae (30*)	Eucommiaceae
Euphorbiaceae	Euphorbiaceae	Euphorbiaceae (12*)	Euphorbiaceae
Fagaceae	Fagaceae	Fagaceae (3)	Fagaceae
Fumariaceae	Fumariaceae	Fumariaceae (3)	Papaveraceae
Gentianaceae (except <i>Menyanthes</i> , <i>Obolaria</i>)	Gentianaceae	Gentianaceae (14*)	Gentianaceae
Gentianaceae (<i>Menyanthes</i>)	Menyanthaceae	Menyanthaceae (18*)	Menyanthaceae
Gentianaceae (<i>Obolaria</i>)	Gentianaceae	Gentianaceae (14*)	Menyanthaceae
Geraniaceae	Geraniaceae	Geraniaceae (13*)	Geraniaceae
Gramineae	Poaceae	Poaceae (24-25)	Poaceae
Grossulariaceae	Grossulariaceae	Grossulariaceae (8*)	Grossulariaceae
Not in (<i>Itea</i>)	Grossulariaceae	Iteaceae (8*)	Iteaceae
Haloragidaceae (except <i>Hippuris</i>)	Haloragaceae	Haloragaceae (10*)	Haloragaceae
Haloragidaceae (<i>Hippuris</i>)	Hippuridaceae	Plantaginaceae (17*)	Plantaginaceae

Hamamelidaceae (<i>Hamamelis</i>)	Hamamelidaceae	Hamamelidaceae (3)	Hamamelidaceae
Hippocastanaceae (<i>Aesculus</i>)	Hippocastanaceae	Sapindaceae (13*)	Sapindaceae
Hydrocharitaceae	Hydrocharitaceae	Hydrocharitaceae (22)	Hydrocharitaceae
Hydrophyllaceae	Hydrophyllaceae	Boraginaceae (15*)	Boraginaceae or Hydrophyllaceae
Not in (<i>Hydrolea</i>)	Hydrophyllaceae	Hydroleaceae (14*)	Hydroleaceae
Hypericaceae	Clusiaceae	Clusiaceae (6*)	Hypericaceae
Iridaceae	Iridaceae	Iridaceae (26)	Iridaceae
Juglandaceae	Juglandaceae	Juglandaceae (3)	Juglandaceae
Juncaceae	Juncaceae	Juncaceae (22)	Juncaceae
Juncaginaceae (except <i>Scheuchzeria</i>)	Juncaginaceae	Juncaginaceae (22)	Juncaginaceae
Juncaginaceae (<i>Scheuchzeria</i>)	Scheuchzeriaceae	Scheuchzeriaceae (22)	Scheuchzeriaceae
Labiatae	Lamiaceae	Lamiaceae (16*)	Lamiaceae
Not in (<i>Lardizabala</i>)	Lardizabalaceae	Lardizabalaceae (3)	Lardizabalaceae
Lauraceae	Lauraceae	Lauraceae (3)	Lauraceae
Leguminosae	Fabaceae	Fabaceae (10-11*)	Fabaceae
Leguminosae	Caesalpiniaceae	Fabaceae (10-11*)	Fabaceae
Leguminosae	Mimosaceae	Fabaceae (10-11*)	Fabaceae
Lemnaceae	Lemnaceae	Lemnaceae (22)	Araceae
Lentibulariaceae	Lentibulariaceae	Lentibulariaceae (18*)	Lentibulariaceae
Liliaceae (<i>Alétris</i>)	Liliaceae	Liliaceae (26)	Nartheciaceae
Liliaceae (<i>Allium</i> , <i>Nothoscordum</i>)	Liliaceae	Liliaceae (26)	Alliaceae
Liliaceae (<i>Asparagus</i>)	Liliaceae	Liliaceae (26)	Asparagaceae
Liliaceae (<i>Camassia</i>)	Liliaceae	Liliaceae (26)	Agavaceae
Liliaceae (<i>Chamaelirium</i> , <i>Melanthium</i> , <i>Stenanthium</i> , <i>Triantha</i> , <i>Trillium</i> , <i>Zigadenus</i>)	Liliaceae	Liliaceae (26)	Melanthiaceae
Liliaceae (<i>Clintonia</i> , <i>Erythronium</i> , <i>Lilium</i> , <i>Medeola</i>)	Liliaceae	Liliaceae (26)	Liliaceae
Liliaceae (<i>Convallaria</i> , <i>Maianthemum</i> , <i>Polygonatum</i>)	Liliaceae	Liliaceae (26)	Ruscaceae
Not in (<i>Galanthus</i> , <i>Leucojum</i>)	Liliaceae	Liliaceae (26)	Amaryllidaceae
Liliaceae (<i>Hemerocallis</i>)	Liliaceae	Liliaceae (26)	Hemerocallidaceae
Not in (<i>Hosta</i>)	Liliaceae	Liliaceae (26)	Agavaceae
Not in (<i>Hyacinthoides</i> , <i>Scilla</i>)	Liliaceae	Liliaceae (26)	Hyacinthaceae
Liliaceae (<i>Hymenocallis</i>)	Liliaceae	Liliaceae (26)	Amaryllidaceae
Liliaceae (<i>Muscari</i> , <i>Ornithogalum</i>)	Liliaceae	Liliaceae (26)	Hyacinthaceae
Liliaceae (<i>Smilax</i>)	Smilacaceae	Smilacaceae (26)	Smilacaceae
Liliaceae (<i>Uvularia</i>)	Liliaceae	Liliaceae (26)	Colchicaceae
Liliaceae (<i>Yucca</i>)	Agavaceae	Agavaceae (26)	Agavaceae
Limnanthaceae	Limnanthaceae	Limnanthaceae (7*)	Limnanthaceae
Linaceae	Linaceae	Linaceae (7*)	Linaceae
Loasaceae	Loasaceae	Loasaceae (12*)	Loasaceae
Loganiaceae	Loganiaceae	Loganiaceae (14*)	Loganiaceae
Loranthaceae (<i>Phoradendron</i>)	Viscaceae	Viscaceae (12*)	Santalaceae
Lythraceae	Lythraceae	Lythraceae (10*)	Lythraceae
Magnoliaceae	Magnoliaceae	Magnoliaceae (3)	Magnoliaceae
Malvaceae	Malvaceae	Malvaceae (6*)	Malvaceae
Martyniaceae	Pedaliaceae	Pedaliaceae (17*)	Martyniaceae
Melastomaceae	Melastomataceae	Melastomataceae (10*)	Melastomataceae
Menispermaceae	Menispermaceae	Menispermaceae (3)	Menispermaceae
Moraceae (except <i>Cannabis</i> , <i>Humulus</i>)	Moraceae	Moraceae (3)	Moraceae
Moraceae (<i>Cannabis</i> , <i>Humulus</i>)	Cannabaceae	Cannabaceae (3)	Cannabaceae
Myricaceae	Myricaceae	Myricaceae (3)	Myricaceae
Najadaceae	Najadaceae	Najadaceae (22)	Hydrocharitaceae
Nymphaeaceae (except <i>Brasenia</i> , <i>Cabomba</i> , <i>Nelumbo</i>)	Nymphaeaceae	Nymphaeaceae (3)	Nymphaeaceae
Nymphaeaceae (<i>Brasenia</i> , <i>Cabomba</i>)	Cabombaceae	Cabombaceae (3)	Nymphaeaceae or Cabombaceae
Nymphaeaceae (<i>Nelumbo</i>)	Nelumbonaceae	Nelumbonaceae (3)	Nelumbonaceae
Oleaceae	Oleaceae	Oleaceae (16*)	Oleaceae
Onagraceae	Onagraceae	Onagraceae (10*)	Onagraceae
Orchidaceae	Orchidaceae	Orchidaceae (26)	Orchidaceae
Orobanchaceae	Orobanchaceae	Orobanchaceae (17*)	Orobanchaceae
Oxalidaceae	Oxalidaceae	Oxalidaceae (12*)	Oxalidaceae
Papaveraceae	Papaveraceae	Papaveraceae (3)	Papaveraceae
Passifloraceae	Passifloraceae	Passifloraceae (6*)	Passifloraceae

Phytolaccaceae	Phytolaccaceae	Phytolaccaceae (4)	Phytolaccaceae
Plantaginaceae	Plantaginaceae	Plantaginaceae (17*)	Plantaginaceae
Platanaceae	Platanaceae	Platanaceae (3)	Platanaceae
{Podostemaceae}	Podostemaceae	Podostemaceae (6*)	Podostemaceae
Polemoniaceae	Polemoniaceae	Polemoniaceae (15*)	Polemoniaceae
Polygalaceae	Polygalaceae	Polygalaceae (11*)	Polygalaceae
Polygonaceae	Polygonaceae	Polygonaceae (5)	Polygonaceae
Pontederiaceae	Pontederiaceae	Pontederiaceae (26)	Pontederiaceae
Portulacaceae	Portulacaceae	Portulacaceae (4)	Portulacaceae
Potamogetonaceae (except <i>Zanichellia</i>)	Potamogetonaceae	Potamogetonaceae (22)	Potamogetonaceae
Potamogetonaceae (<i>Zanichellia</i>)	Zannichelliaceae	Zannichelliaceae (22)	Zannichelliaceae
Primulaceae	Primulaceae	Primulaceae (8*)	Primulaceae
Ranunculaceae	Ranunculaceae	Ranunculaceae (3)	Ranunculaceae
Not in	Resedaceae	Resedaceae (7*)	Resedaceae
Rhamnaceae	Rhamnaceae	Rhamnaceae (12*)	Rhamnaceae
Rosaceae	Rosaceae	Rosaceae (9*)	Rosaceae
Rubiaceae	Rubiaceae	Rubiaceae (18*)	Rubiaceae
Not in	Ruppiaceae	Ruppiaceae (22)	Ruppiaceae
Rutaceae	Rutaceae	Rutaceae (13*)	Rutaceae
Salicaceae	Salicaceae	Salicaceae (7*)	Salicaceae
Santalaceae	Santalaceae	Santalaceae (12*)	Santalaceae
Sapindaceae	Sapindaceae	Sapindaceae (13*)	Sapindaceae
Sapotaceae	Sapotaceae	Sapotaceae (8*)	Sapotaceae
Sarraceniaceae	Sarraceniaceae	Sarraceniaceae (8*)	Sarraceniaceae
Saururaceae	Saururaceae	Saururaceae (3)	Saururaceae
Saxifragaceae (except <i>Hydrangea</i> , <i>Parnassia</i> , <i>Philadelphus</i>)	Saxifragaceae	Saxifragaceae (8*)	Saxifragaceae
Saxifragaceae (<i>Hydrangea</i> , <i>Philadelphus</i>)	Hydrangeaceae	Hydrangeaceae (12*)	Hydrangeaceae
Saxifragaceae (<i>Parnassia</i>)	Saxifragaceae	Parnassiaceae (8*)	Parnassiaceae
Scrophulariaceae (<i>Agalinis</i> as <i>Gerardia</i> , <i>Aureolaria</i> , <i>Buchnera</i> , <i>Castilleja</i> , <i>Seymeria</i> as <i>Dasistoma</i> , <i>Melampyrum</i> , <i>Pedicularis</i>)	Scrophulariaceae	Orobanchaceae (17*)	Orobanchaceae
Scrophulariaceae (<i>Antirrhinum</i> , <i>Bacopa</i> , <i>Chaenorrhinum</i> , <i>Chelone</i> , <i>Collinsia</i> , <i>Gratiola</i> , <i>Kickxia</i> , <i>Leucospora</i> , <i>Linaria</i> , <i>Mecardonia</i> , <i>Nuttallanthus</i> , <i>Penstemon</i> , <i>Veronica</i> including <i>Besseyia</i> , <i>Veronicastrum</i>)	Scrophulariaceae	Plantaginaceae (17*)	Plantaginaceae
Not in (<i>Cymbalaria</i> ,)	Scrophulariaceae	Plantaginaceae (17*)	Plantaginaceae
Not in (<i>Digitalis</i>)	Scrophulariaceae	Plantaginaceae (17*)	Plantaginaceae
Not in (<i>Mazus</i>)	Scrophulariaceae	Phrymaceae (17*)	Phrymaceae
Scrophulariaceae (<i>Lindernia</i>)	Scrophulariaceae	Linderniaceae (17*)	Linderniaceae
Scrophulariaceae (<i>Mimulus</i>)	Scrophulariaceae	Phrymaceae (17*)	Phrymaceae
Scrophulariaceae (<i>Paulownia</i>)	Bignoniaceae	Paulowniaceae (17*)	Paulowniaceae
Scrophulariaceae (<i>Scrophularia</i> , <i>Verbascum</i>)	Scrophulariaceae	Scrophulariaceae (17*)	Scrophulariaceae
Simarubiaceae	Simaroubaceae	Simaroubaceae (13*)	Simaroubaceae
Solanaceae	Solanaceae	Solanaceae (14*)	Solanaceae
Sparganiaceae	Sparganiaceae	Sparganiaceae (22)	Typhaceae
Staphyleaceae	Staphyleaceae	Staphyleaceae (9*)	Staphyleaceae
Styracaceae	Styracaceae	Styracaceae (8*)	Styracaceae
Not in (<i>Tamarix</i>)	Tamaricaceae	Tamaricaceae (6*)	Tamaricaceae
Thymelaeaceae	Thymelaeaceae	Thymelaeaceae (6*)	Thymelaeaceae
Tiliaceae	Tiliaceae	Malvaceae (6*)	Malvaceae
Typhaceae	Typhaceae	Typhaceae (22)	Typhaceae
Ulmaceae (<i>Celtis</i>)	Ulmaceae	Ulmaceae (3)	Cannabaceae
Ulmaceae (<i>Ulmus</i>)	Ulmaceae	Ulmaceae (3)	Ulmaceae
Umbelliferae	Apiaceae	Apiaceae (13*)	Apiaceae
Urticaceae	Urticaceae	Urticaceae (3)	Urticaceae
Valerianaceae	Valerianaceae	Valerianaceae (18*)	Caprifoliaceae
Verbenaceae (except <i>Phryma</i>)	Verbenaceae	Verbenaceae	Verbenaceae
Verbenaceae (<i>Phryma</i>)	Verbenaceae	Verbenaceae	Phrymaceae
Not in (<i>Vitex</i>)	Verbenaceae	Lamiaceae (16*)	Lamiaceae
Violaceae	Violaceae	Violaceae (6*)	Violaceae
Vitaceae	Vitaceae	Vitaceae (12*)	Vitaceae
Xyridaceae	Xyridaceae	Xyridaceae (22)	Xyridaceae
Zygophyllaceae	Zygophyllaceae	Zygophyllaceae (12*)	Zygophyllaceae