

Bibliography of *Frasera Walteri* Michaux

by

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UNIVERSITY OF WISCONSIN

A Thesis Submitted For The Degree Of  
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Wildenow, E.

1753

*Swertia difformis*

Wildenow, Linne's Species Plantarum, 4 ed., V. -, pt. 2.p. 734;  
and p. 1339.  
(Good's Family Flora, V. 2. T. 87; Bull. Lloyd's Lib. Ser. 3,  
p. 33; Gronovius Flora Virginica, 2 ed., p. 30. No. 40)

The author called the plant by the above name. On p. 734,  
it gives a description of the genus *Swertia*; the last reference  
gives the habitat and description of the species "*difformis*".

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Gronovius, J. F.

1762

*Swertia difformis*

Flora Virginica, 2 ed., p. 30. No 40.  
(Bull. Lloyd's Lib., Ser. 3, p. 33; Wildenow, Linne's Species  
Plantarum, 4 ed., V. -, pt. 2. p. 1330)

Gives a description of the plant, with a reference to  
Clayton's Herbarium number.

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Houttuyn, F.

1777

*Swertia difformis*

Naturlyke Histoire, etc., pt. 12, piece 7. p. 809.  
(Wildenow, Linne's, Species Plantarum, 4 ed., V. -, pt. 2. p.  
1330)

Gives a description of the plant, and its distribution  
in North America.

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Schoepf, J. D.

1787

*Swertia difformis*

Materia Medica, p. 33  
(Bull. Lloyd's Lib. Ser. 3, p. 33; Rafinesque, Medical Flora,  
V. 1, p. 196)

Gives description, habitat, and medicinal use of the  
plant.

*Frasera carolinensis*

Flora Caroliniensis, p. 88.

(Michaux, Flora Bor. Amer., V. 1, p. 97; Torrey, Flora of North U. S., V. 1, p. 187; Elliot, Sketch Botany of S. C. & Ga., V. 1, p. 205; Griffith, Medical Botany, p. 463; Roemer et Schultes, (Linne's) Syst. Veget., V. 3, p. 162; Pursh, Flora Amer. Sept., V. 1, p. 101; Barton, Veget. Mat. Med., V. 2, p. 103; Barton, Collections Toward an Essay, pt. 2, p. 16; Lindley, Flora Medica, p. 520; Rafinesque, Medical Flora, V. 1, p. 196; Britton & Brown, Flora N. States & Canada, 1 ed. V. 2, p. 619; Britton & Brown, Flora N. States & Canada, 2 ed. V. 3, p. 15; Pereira, Mat. Med., 3<sup>rd</sup> ed. V. 2, p. 530; Goebel & Kunze, Pharm. Waarenk., V. 2, p. 31; Beck, Bot. Northern & Middle States, 1 ed. p. 241)

Gives a botanical description of the plant in detail.

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Bartram, W.

1791

*Frasera carolinensis*

Travels through N. & S. C., Ga. etc., 1 ed. p. 42.

(Barton, Veg. Mat. Med., V. 2, p. 103; Griffith, Medical Botany, p. 462; Rafinesque, Medical Flora, V. 1, p. 196)

The plant was called "Indian Lettuce" in the area visited; also gives the description and the habitat of the plant.

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Gmelin, J. F.

1791

*(Frasera carolinensis)*

Linne's, Syst. Nat., 13 ed. V. 2, p. 215 & 256.

(Barton, Veg. Mat. Med., V. 2, p. 103; Persoon, Synopsis Plant., V. 1, p. 137; Roem. et Schultes, Linne's Syst. Veget., V. 3, p. 162)

The original was not available.

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Jussieu, A. L.

1791

*(Frasera carolinensis)*

Nat. Ord. Gentianae, P.-.

(Torrey, Flora of North U. S., V. 1, p. 187; Barton, Veg. Mat. Med., V. 2, p. 103.)

The original was not available..

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Michaux, A.

1803

*Frasera Walteri*

Flora Bor. Amer., V. 1, p. 96.

(Torrey, Flora of North U. S., V. 1, p. 187; Barton, Veg. Mat. Med., V. 2, p. 103; Barton, Collections, pt. 2, p. 16; Elliot, Sketch Botany, V. 1, p. 205; Lindley, Flora Medica, p. 520; Persoon, Synopsis Plant., V. 1, p. 137; Roemer et Schultes, Linne's Syst. Veget. V. 3, p. 162; Pursh, Flora Amer. Sept., V. 1, p. 101; Rafinesque, Medical Flora, V. 1, p. 196.)

Gives a description and habitat of the plant.

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Barton, B. S.

1804

*Frasera carolinensis*

Collections toward an Essay on the Mat. Med. of the U. S., pt. 2, p. 16.

(King's Am. Dispens., 6 ed., p. 296; Ibid, 7 ed., p. 306; Ibid, 8 ed., p. 310; Ibid, 9 ed., p. 338; Barton, Veg. Mat. Med., V. 2, p. 103.)

Tells of the similarity of *Frasera* to *Gentian* in habitat, medicinal use, and botanically.

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Persoon, C. H.

1805

*Frasera caroliniensis*

Synopsis Plantarum, V. 1, p. 137.

(Torrey, Flora of North U. S., V. 1, p. 187; Barton, Veg. Mat. Med., V. 2, p. 103; Roemer et Schultes, Linne's Syst. Veget., V. 3, p. 162; Rafinesque, Medical Flora, V. 1, p. 196.)

Gives a description, habitat, and references to the plant.

Coxe, J. R.

1806

*Frasera Caroliniensis*. Walter.

Am. Dispens., 1 ed., p. 351.

Gives habitat and description of the plant.

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Shecut, J. L. E. W.

1806

*Frasera*, *Frasera Caroliniensis*

Flora Carolinaeensis, V. 1, p. 571.

Lists the class to which *Frasera* belongs and describes the species *caroliniensis* and gives the habitat of the same.

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Gaertner, F.

1807

*Frasera Walteri* Michx.

Fruct., V. 3, t. 224.

(Index Lond., V. 3, p. 207; Pritzel Icones Botany, p. 465.)

The original was not available.

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Barton, B. S.

1812

(*Frasera carolinensis*)

Flora Virginica, p. 49.

(Barton, Veg. Mat. Med., V. 2, p. 103; Rafinesque, Medical Flora, V. 1, p. 196.)

The original was not available.

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Cullen, William

1812

*Frasera Walteri*

Materia Medica, 1 ed. V. 1, p. 290.

the drug was listed as the drug used as a

The plant was listed among the drugs used as tonics.

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Cullen, William

1812

*Frasera Walteri*

Materia Medica, 1 ed. V. 2, p. 52.

Gives synonyms and use of the drug.

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1812

(*Frasera carolinensis*)

Med. Rep. N. Y., V. 15, p. -.

(Barton, Veg. Mat. Medica, V. 2, p. 103.)

The original was not available.

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Muhleberg, H.

1813

*Frasera verticillata*

Cat. Pl. Amer. Sept., p. 17.

(Torrey, Flora of North U. S., V. 1, p. 187.)

Gives common name, description of the flower, and the distribution.

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Pursh, F.

1814

*Frasera carolinensis*

Flora Amer. Sept., V. 1, p. 101.

(Torrey, Flora of Northern U. S., V. 1, p. 187; Barton, Veg. Mat. Med., V. 2, p. 103; Roemer et Schultes, Linne's, Syst. Veget., V. 3, p. 162; Rafinesque, Medical Flora, V. 1, p. 196.)

Gives references and description of the plant. Also compares *Frasera* with *Swertia* which resembles the plant.

*Frasera verticillata*

Picture Cinnacinnati, p. 85.

(Barton, Veg. Mat. Med., V. 2, p. 103; Elliot, Sketch Botany, V. 1, p. 205; Rafinesque, Medical Flora, V. 1, p. 196.)

Lists the above plant as occurring near Cinnacinnati; also gives a brief history of the botanical name as used by Linne', Barton, Fraser, and Walter; also gives synonyms and the use of the plant.

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*Frasera Walteri*

Veget. Mat. Med., V. 2, p. 103.

(Good, Family Flora, V. 2, t. 87; Griffith Med. Bot., p. 463; Goebel & Kunze, Pharm. Waarenk., V. 2, p. 31; Torrey, Flora of North. U. S., V. 1, p. 187; Pritzell, Icones Botan., p. 465; Lindley, Flora Medica, p. 520; Rafinesque, Medical Flora, V. 1, p. 196; Index Lond., V. 3, p. 207.)

Gives references, description of the plant, synonyms, colored illustration of the plant, medicinal properties, the part used in medicine, some history of the plant; also gives some constituents of the drug.

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*Frasera Caroliniensis*. Walter

Am. Dispens., 4 ed., p. 257; Ibid., 6 ed., p. 296; Ibid., 7 ed., p. 306.

Gives a botanical description and habitat of the plant. Also compares the drug with Columbo.

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*Frasera Walter*. Michaux

Genera of Amer. Plants, V. 1, p. 102.

(Torrey, Flora North. U. S., V. 1, p. 187; Barton, Veg. Mat. Med., V. 2, p. 103; Rafinesque, Medical Flora, V. 1, p. 196; Kost, Mat. Med., p. 621; Goebel & Kunze, Pharm. Waarenk., V. 2, p. 31.)

Gives a description of the genus *Frasera*; also gives a description, habitat, common name, and medicinal properties of the species .

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Roemer, J. J. et Schultes, J. A.

1818

*Frasera carolinensis*

Linne's Syst. Veget., V. 3, p. 162.

(Goebel & Kunze, Pharm. Waarenk., V. 2, p. 31; Torrey, Flora of North. U. S., V. 1, p. 187.)

gives references, description, and habitat of the plant. On p. 7., it gives a botanical description of the plant.

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Hand, W. M.

1820

*Frasera verticillata*. Muhlenberg.

The House Surgeon & Physician, V. 1, p. 220.

Lists synonyms and medicinal properties of the plant, and compares it with *Gentian*.

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Stoltze, G. H.

1820

(*Radices Columbo.*)

Berl. Jahrb. d. Pharm., V. 21, p. 482. or Deutsch. Jahrb. f. Pharm., 4, p. 482.

(Goebel & Kunze, Pharm. Waarenk., V. 2, p. 31; Pharm. Centribl., 1830. V. 1, p. 398; Alman & Farcherb., V. 42, p. 165.)

Compares true and American *Columbo* roots as to geographical source, color, taste, odor, external and internal characters, extractive with several solvents.

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Elliot, S.

1821

*Frasera Walteri* Mich.

Sketch of the Botany of S. C. & Ga., V. 1, p. 205.  
(Torrey, Flora of North. U. S., V. 1, p. 187; Barton, Veg. Mat. Med., V. 2, p. 103; Lindley, Flora Medica, p. 520; Rafinesque, Flora Medical Flora, V. 1, p. 196.)

Gives the description, habitat, synonyms, medicinal use of the plant, and references.

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Torrey, J.

1824

*Frasera Walteri*

Flora of Northern U. S., V. 1, p. 187.  
(Goebel & Kunze, Pharm. Waarenk., V. 2, p. 31; Lindley, Flora Medica, p. 520; Rafinesque, Medical Flora, V. 1, p. 196.)

Gives a description of the plant and of the root; also gives references, habitat, and medicinal uses.

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Geiger, P. L.

1826

Ueber aechte und falsehe Columbowurzel.

Handb. d. Pharm., 1 ed., p. 50.  
(Goebel & Kunze, Pharm. Waarenk., V. 2, p. 31.)

Comments on the report of Guibourt, and makes additional comments as a result of his own observation concerning the above drug.

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Guibourt, N. J. B. G.

1826

Sur la racine de columbo vraie et fausse

Jour. de Chim. Med., V. 2, p. 334.  
(Goebel & Kunze, Pharm. Waarenk., V. 2, p. 31; Geiger. Handbuch der Pharm., 2 ed. V. 2, p. 1750; Mag. d. Pharm., 16. p. 50.)

Compares the true and false columbo according to structure and by the reactions of various reagents.

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*Frasera Verticillata*

Medical Flora, V. 1, p. 196.

(Good, Family Flora, V. 2, t. 87; Griffith, Medical Botany, p. 462; Pritzel, Inconum Botanicarum, p. 465; Index Lond., V. 3, p. 207.)

Gives references; name of the drug in English, French, and German; synonyms; description of *Frasera carolinensis* and *Frasera verticillata*; habitat; history; qualities; properties; and substitutes.

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Geiger, P. L.

1829

(Falsche Columbowurzel)

Handbuch der Pharm., 2 ed. V. 2, p. 1750.

(Goebel & Kunze, Pharm. Waarenk., V. 2, p. 31.)

Compares the American Columbo with the true Columbo.

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Rennie, J.

1829

*Frasera Walteri*

New Suppl. Pharmacopoeias of Lond., Edinb., Dubl., & Paris, 2 ed., p. 155.

Its tonic properties are mentioned and dose stated.

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Coxe, J. R.

1830

*Frasera Walteri. Frasiera Carolinensis.*

Am. Dispens., 8 ed., p. 310; Ibid., 9 ed., p. 338.

Gives habitat and description of the plant, and keeping quality of the drug.

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Goebel, F.

1830

Radix Colombo spuria Stoltzii : S. America (Fraseria caroliniana Walter)

Pharm. Waarenk., V. 2, p. 31.  
(Haenlis Mag. f. Pharm., 34, p. 278.)

Gives a number of synonyms in German and Latin; also gives references, description, constituents of drug with two colored illustrations of the root.

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Stoltze, G. H.

1830

Chemische Unterscheidungsmerkmale der achten von der achten Columbowurzel.

Pharm. Centrbl., 1830, p. 398.  
(Goebel & Kunze, Pharm. Waarenk., V. 2, p. 32.)

Compares the false columbo or American Columbo with the true Columbo by the aid of various reagents; also gives a few references.

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Witting, C. F.

1830

(Fraseria carolinensis)

Toxicologie, V. 2, p. 148.  
(Pharm. Centrblatt, V. 1, p. 399.)

The original was not available.

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Griffith, R. E.

1832

On Fraseria Walteri.

Am. Jour. Pharm., V. 3, p. 269.  
(Griffith, Medical Botany, p. 463.)

Gives a description, habitat, unusual synonyms, medicinal value, and preparations in which it is used. Also a colored illustration on opposite p. 269.

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Howard, H.

1832

*Frasera verticillata*

Bot. Med., V. 2, p. 321.

Gives synonyms, description of entire plant, medicinal properties, and time of collection.

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Woodville, W.

1832

(*Frasera carolinensis*)

Med. Bot., 3 ed. V. -, p. -.  
(Good, Family Flora, V. 2, t. 87.)

The original was not available.

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Beck, L. C.

1833

*Frasera Walteri*

Botany of Northern & Middle States, 1 ed., p. 241.

Gives botanical description, synonyms, and habitat of the drug.

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Griffith, R. E.

1834

*Frasera Walteri*

Am. Jour. Pharm., V. 5, p. 208.

Discusses the use of the root as a purgative. Also see p. 290 for more information on medicinal value of the drug.

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Wood, G. B. & Bache, F.

1834

*Frasera*. U. S. Secondary

U. S. Dispens., 2 ed., p. 318; Ibid., 3 ed., p. 307; Ibid., 4 ed., p. 318; Ibid., 5 ed., p. 336; Ibid., 6 ed., p. 336; Ibid., 7 ed., p. 336; Ibid., 8 ed., p. 336; Ibid., 9 ed., p. 349; Ibid., 10 ed., p. 355; Ibid., 11 ed., p. 369; Ibid., 12 ed., p. 400; Ibid., 13 ed., p. 412; Ibid., 14 ed., p. 426.

Gives a botanical description, habitat, medicinal properties and uses of the plant.

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Gray, F. S.

1836

*Frasera walteri*

Supplement to the Pharmacopoeia (British) & Treatise on Pharmacology, p. 57.

The drug is used as columba root.

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Guibourt, N. J. B. G.

1836

Faux columbo and Amerique

Histoire de drogues, 3 ed. V. 1, p. 457; Ibid., 6 ed. V. 2, p. 36.

(Goebel & Kunze, Pharm. Waarenk., V. 2, p. 31.)

Mentions it as a substitute for true columbo; also gives a description of the plant and of the part used.

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Rennie, J.

1837

*Frasera Walteri*

New Sppl. Pharmacopoeias, of Lond., Edinb., Dubl., and Paris, 4 ed., p. 162.

The dose and use of *Frasera* are mentioned.

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Lindley, J.

1838

*Frasera*

Flora Medica, p. 520.  
(Good, Family Flora, V. 2, t. 87.)

Gives description, medicinal uses of the drug, and references.

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Douglas, J. W.

1840

Chemical Examination of the Root of *Frasera Walteri*

Am. Jour. Pharm., V. 12, p. 177.  
(King, Am. Dispens., 6 ed., p. 423; Ibid., 8 ed., p. 367; Ibid., 10 ed., p. 367; Ibid., 15 ed., p. 367; Ibid., 16 ed., p. 367; Ibid., 18 ed., V. 1, p. 900; Ibid., Am. Journ. Pharm., V. 52, p. 71.)

The root was found to contain gum, lime, carbonate of lime, tannin, gallic acid, resin, fatty matter, sugar, a yellow coloring substance, bitter extractive, and lignin. This article was also listed by title in the Am. Jour. Pharm., V. 12, p. 173.

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Paine, M.

1842

Wild Columbo

Materia Medica, 1 ed., p. 185.

Gives synonyms, habitat, part used, dose, and preparations made from the drug.

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Paris, J. A.

1844

(*Frasera carolinensis*)

Pharmacologia, 9 ed., p. -.  
(Torrey, Flora North. U. S., V. 1, p. 187; Rafinesque, Medical Flora, V. 1, p. 196; Goebel & Kunze, Pharm. Waarenk., V. 2, p. 31.)

The original was not available.

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*Frasera carolinensis*

Family Flora, V. 2, t. 87.  
(Index Lond., V. 3, p. 207.)

Gives habitat, medicinal properties, uses, description,  
and some of its history, with references.

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Wood, A.

before 1847

(*Frasera carolinensis*)

Class Book of Botany, 1 ed., p. 205.  
(Good, Family Flora, V. 2, t. 87.)

Gives description, synonyms, habitat, and medicinal uses  
of the plant.

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Griffith, E. R.

1847

*Frasera Walteri*

Medical Botany, p. 462.  
(Good, Family Flora, V. 2, t. 87.)

Gives history of name, description, habitat, history of  
the drug itself, medicinal properties and references.

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Redwood, T.

1847

*Frasera carolinensis*, *Frasera Walteri*

Gray's Supplement to the Pharm., p. 414.

Medicinal properties, and synonyms are listed.

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Wood, A.

1847

*Frasera carolinensis*

Class Book of Botany, 2 ed. p. 585.

Gives description, synonyms, habitat, and medicinal use of the plant.

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Beck, L. C.

1848

*Frasera, Walteri.* - *Frasera*

Botany of U. S. No. of Va., 2 ed., p. 238.

Gives the derivation of the genus name, description of the plant, its habitat, use, and synonym.

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Gray, A.

1848

*Frasera, Walteri*

Botany of the Northern U. S., 1 ed., p. 362.

Gives description, habitat, time of collection, history, and synonyms of the drug.

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King, J. & Newton, R.

1852

*Frasera Carolinensis.* (*Frasera Walteri.*)

Eclectic Am. Dispens., 1 ed., p. 179; Ibid., 6 ed., p. 423.

Gives history, properties and uses, and official preparations of the drug.

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Morris, J. H. M.

1852

*Frasera.*

Am. Jour. Pharm., V. 24, p. 192.

This theses of the Philadelphia College of Pharmacy is listed by title only.

Pereira, J.

before 1852

(*Frasera carolinensis*)

Elementary Mat. Med., - ed., V. 2, p. 354.  
(Good, Family Flora, V. 2, t. 87.)

The original was not available.

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Pereira, J.

1854

*Frasera carolinensis* Walteri

Elementary Mat. Med., 3 ed., V. 2, p. 530.

Gives synonyms, use and dose, and says it is similar to gentian.

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Darby, J.

1855

*Frasera carolinensis*

Bot. Southern U. S., V. 1, p. 437.

Gives description, habitat, and synonyms of the plant.

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Gray, A.

1857

*Frasera Carolinensis*, Walteri

Manual of the Bot. of the Northern U. S., 3 ed., p. 344

Gives synonyms, description, habitat, history, and time of collection of the drug.

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Kost, J.

1858

*Frasera*

Mat. Med., p. 137 & p. 621.

(Good, Family Flora, V. 2, t. 87.)

The first reference contains synonyms, medicinal value, and dose of the drug and the extract. The second, contains synonyms, description of the genus *Frasera*, description of the species *carolinensis*, habitat, analysis of the constituents, medicinal properties and uses. Also shows an illustration of the entire plant.

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Bates, J. & Tilden, H. A. 1859

*Frasera Carolinensis* (*Frasera Walteri*.)

Jour. Mat. Med., V. 1, p. 141.

Gives description of the plant, its habitat, and medicinal value in detail.

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Bates, J. & Tilden, H. A. 1860

Plants Indigenous to the U. S. Possessing Tonic Properties.

Jour. Mat. Med., V. 2, p. 6.

Gives order, genera, species, and popular names of *Frasera carolinensis*.

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Chapman, A. W. 1860

*Frasera carolinensis*.

Flor. Southern U. S., p. 357.

Gives description of the plant and also its habitat.

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Wood, A. 1861

*Frasera walteri*

Class-Book of Botany, 41 ed., p. 586.

A description of the plant, its habitat, and medicinal virtues are listed.

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Higinbothom, W. R.

1862

On the Root of *Frasera Walteri*

Am. Jour. Pharm., V. 34, p. 23; Ibid., V. 52, p. 71; or Proc. Am. Pharm. Assoc., 10, p. 116. (King, Am. Dispens., 8 ed., p. 367; Ibid., 10 ed., p. 367; Ibid., 15 ed., p. 367; Ibid., 16 ed., p. 367; Ibid., 18 ed., V. 1, p. 900; U. S. Dispens., 12 ed., p. 400; Ibid., 13 ed., p. 412; Ibid., 14 ed., p. 427; Ibid., 15 ed., p. 1646; Ibid., 17 ed., p. 1637; Ibid., 19 ed., p. 1495; Ibid., 20 ed., p. 1400; Ibid., 21 ed., p. 1309.)

Gives its habitat and constituents of the root as compared with gentian. Also mentioned by title in Am. Jour. Pharm., V. 33, p. 282. (1861).

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Procter, W. Jr.

1862

The Root of *Frasera Walteri*

Am. Jour. Pharm., V. 34, p. 23.

Gives the habitat, probable chemical composition, and an appropriate name for the drug.

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Frederic, J. F., Bentley, R., Warrington, R., Wood, H.C. 1866

*Frasera carolinensis*, Walter.

Mat. Med. & Therapeutics, 2 ed., V. 1, p. 549.

Gives synonyms, generic character, description, habitat, medicinal qualities, and preparations of the drug.

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Curtis, M. A.

1867

*Frasera Carolinensis*, Walter (Columbo)

Gives the habitat of the plant in the vallies of Macon and Cherokee.

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Gray, A.

1867

*Frasera Carolinensis*, Walter

Botany of the Northern U. S., 5 ed., p. 386.

Gives description, synonyms, habitat, time of collection, and history of the drug.

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Procter, W. Jr.

1868

*Frasera Walteri*

Am. Jour. Pharm., V. 40, p. 309.

Gives description of the plant, habitat, medicinal properties, and chemical composition of the root.

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Thomas, F. W.

1868

On *Frasera Walteri* (American Columbo)

Am. Jour. Pharm., V. 40, p. 309; or Am. Jour. Pharm., V. 52, p. 71; or Proc. Am. Pharm. Assoc., V. 16, p. 191. (U. S. Dispens., 14 ed., p. 427; Ibid., 15 ed., p. 1646; Ibid., 17 ed., p. 1636; Ibid., 19 ed., p. 1495; King, Am. Dispens., 8 ed., p. 367; Ibid., 10 ed., p. 367; Ibid., 15 ed., p. 367; Ibid., 16 ed., p. 367; Ibid., 18 ed., V. 1, p. 900.)

Gives the description, habitat, and constituents of the plant.

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King, J.

1872

*Frasera Walteri* (*Frasera Carolinensis*)

Am. Dispens., 8 ed., p. 366; Ibid., 10 ed., p. 366; Ibid., 15 ed., p. 367; Ibid., 16 ed., p. 366.

Gives description, history, properties, uses, and official preparations of the drug.

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Pollock, A.

1872

*Frasera verticillata*

Botanical Index to Medicinal Plants, 1 ed., p. 20.

Gives common names of the drug and refers to p. 14 of this same edition which gives additional common names; also mentioned on p. 75 of this same edition.

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Kennedy, G. W.

1873

On the Constituents of the Root of *Frasera Walteri*.

Am. Jour. Pharm., V. 52, p. 71; or Proc. Am. Pharm. Assoc., V. 21, p. 635.

(U. S. Dispens., 15 ed., p. 1646; Ibid., 17 ed., p. 1636; Ibid., 19 ed., p. 1495; Yr Bk. Brit. Pharm. Conf., V. 18, p. 196; Pharm. & Chem., V. 7, p. 211.)

Chemical constituents found to resemble gentian instead of columbo. Also in Proc. Am. Pharm., Assoc., V. 21, p. 79, it gives more on the constituents on the root.

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Scudder, J. M.

1873

*Frasera Carolinensis*

Spec. Med., 4 ed., p. 141.

(King's, Am. Dispens., 18 ed., V. 1, p. 901.)

Gives a method of preparing the tincture, the dose of the tincture, and medicinal value of the drug.

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Kennedy, G. W.

1875

*Frasera Walteri*

Proc. Am. Pharm. Assoc., V. 22, p. 114.

*Frasera* does not contain berberine, but gentiopicrin and gentisic acid.

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Biddle, J. B.

1876

*Frasera Walteri*

Materia Medica, 7 ed., p. 119.

Gives synonyms, habitat, constituents, preparations, and dose of the drug.

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Hooker, G. J.

1877

*Frasera speciosa* Dougl. & *Frasera albicaulis* Griseb.

Flora <sup>cali</sup> Borographical Am., t. 153 & t. 154.  
(Index Lond., V. 3, p. 207; Pritzel Iconum Botanicarum, p. 465;  
Pereira, Mat. Med., 3 ed., V. 2, p. 530)

Shows a large illustration of the two species which are similar to the species *Walteri*.

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Kennedy, G. W.

1881

Constituents of *Frasera Walteri*

Am. Jour. Pharm., V. 52, p. 280; Proc. Am. Pharm., Assoc., V. 29, p. 196.

(Felter & Lloyd, King's Am. Dispens., 18 ed., p. 925; Yrbk. Brit. Pharm. Conf., V. 18, p. 196; Pharm. Rundsch., V. 9, p. 143.)

Discusses the constituents of the yellow coloring material.

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Lloyd, J. U.

1881

*Frasera Walteri*, Maisch. - Coloring Principle

Am. Jour. Pharm., V. 52, pp. 71 & 122; Proc. Am. Pharm. Assoc., V. 28, p. 134.  
(King's Am. Dispens., 18 ed., V. 1, p. 901; U. S. Dispens., 15 ed., p. 1646; Ibid., 17 ed., p. 1636.)

Gives analysis and solubility of the coloring matter of the drug.

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Patch, E. L.

1881

Reaction Between Tincture of Ferri Chloridi and Tinctura Gentianae Composita.

Proc. Am. Pharm. Assoc., V. 28, p. 461.  
(King's Am. Dispens., 18 ed., V. 1, p. 901.)

Refers Lloyd obtaining gentisic acid from American Gentian.

-----

Patch, E. L.

1881

Re-examination of Mr. Lloyd's Gentian Solution

Proc. Am. Pharm. Assoc., V. 28, p. 467.  
(U. S. Dispens., 17 ed., p. 1636; Ibid., 19 ed., p. 1495.)

Mr. Kennedy's acid from *Frasera* did not correspond with gentisic acid obtained from *gentiana lutea*.

-----

Kennedy, G. W.

1882

*Frasera carolinensis*. American Columbo.

Am. Jour. Pharm., V. 53, p. 508.

Yellow coloring matter of *Frasera* compared with gentisic acid.

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*Frasera*

U. S. Dispens., 15 ed., p. 1646; Ibid., 17 ed., p. 1635; Ibid., 19 ed., p. 1495; Ibid., 20 ed., p. 1400.

Gives a description of the drug, constituents, medicinal properties and uses.

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Johnson, L.

1884

*Frasera carolinensis* Walter

Medical Botany of North America, 1 ed., p. 221.

Gives synonyms, description, habitat, part used, constituents, preparations, medicinal properties, and uses of the drug.

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Vasey, G.

1884

*Frasera carolinensis* Walt.

Rep. Comm. Ag., p. 128, t. 12.  
(Index Lond., V. 3, p. 207.)

Gives synonyms, description, habitat, and uses of the plant. Also gives a large plate of the top of plant showing the flowers, leaves, and fruit of the plant.

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Maisch, J. M.

1887

*Frasera*. - American Columbo

Manual of Organic Mat. Med., 3 ed., p. 59; Ibid., 5 ed., p. 60; Ibid., 6 ed., p. 59.

Gives synonyms, habitat, description, constituents, and properties of the drug.

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Goss, I. J. M.

1889

Fraserin

Mat. Med., Pharmacology, & Special Therapeutics, 2 ed., p. 145.

Fraserin, which is obtained from *Fraseria carolinensis*, does not act as an emetic; used internally and externally to cure gangrene of the lower limbs. It is also used upon the mucous coat of the whole alimentary canal. The dose of this substance is also given.

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Maisch, J. M.

1889

*Fraseria Carolinensis*

Am. Jour. Pharm., V. 61, p. 554.

*Fraseria* is used to adulterate the official *Columba*.

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Trimble, H. & Lloyd, J. U.

1891

Ueber den gelben Farbstoff der amerikanischen Colombo-  
wurzel; or The Yellow Coloring Principle of *Fraseria Walteri*.

Pharm. Runds., V. 9, p. 143; Am. Jour. Pharm., V. 63, p. 314;  
Proc. Am. Pharm. Assoc., V. 39, p. 143;  
(King's Am. Dispens., 18 ed., V. 1, p. 901.)

The yellow coloring matter of *Fraseria* found not to be gentisic acid, but to have the same empirical formula.

Millsbaugh, C. F.

1892

*Frasera Caroliniensis*

Am. Medicinal Plants, V. 2, p. 129.

Mentions *Fraseria* as an adulterant of *Gentiana lutea*.

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Coville, F. V.

1893

*Fraseria tubulosa* Coville

Contrib. U. S. Nat. Herb., 4, t. 13.  
(Index Lond., V. 3, p. 207.)

Gives a description of the plant and its habitat. This plant resembles the species carolinensis.

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Culbreth, D. M. R.

1896

*Frasera caroliensis* (Walteri) American Columbo.

Mat. Med. & Pharmacology, 1 ed., p. 347.

Gives description, use, and dose of the drug. On p. 61, it is listed as an adulterant for Columbo.

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Britton, N. J. & Brown, A.

1897

*Frasera carolinensis* Walt.

Flora N. States & Canada, 1 ed., V. 2, p. 619.  
(Index Lond., V. 3, p. 207.)

Gives a description of the genus *Frasera*; states that eight species of this genus are native of North America; also gives description of the species carolinensis, its habitat and time of flowering.

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Whelpley, H. M.

1897

*Frasera*.

Meyer Bros. Drugg., V. 18, p. 130.

Gives habitat, description of the drug, and when marketed.

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Felter, H. W. & Lloyd, J. U.

1898

Columba

King's Am. Dispens., 18 ed., V. 1, p. 404.

Stated that the root of *Frasera Carolinensis* is used as an adulterant of Columba.

-----

Felter, H. W. & Lloyd, J. U.

1898

*Frasera*. - American Columbo.

King's Am. Dispens., 18 ed., V. 1, p. 900.

Gives botanical source, history, description, chemical composition, action, medicinal uses, and dosage of the drug.

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Culbreth, D. M. R.

1900

*Frasera carolinensis* (Walteri), American Columbo.

Mat. Med. & Pharmacology, 2 ed., p. 455; Ibid., 6 ed., p. 481.

Gives the United States Pharmacopoeial history, description, use, and dose of the drug. In the 2 ed., p. 210, it is mentioned as an adulterant for columba.

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King, J. & Lloyd, J. U.

1900

*Frasera Carolinensis*

Am. Dispens., 18 ed., V. 2, p. 925.

Some of the constituents of Gentian are found in *Frasera Walteri*.

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Lyons, A. B.

1900

*Frasera Walteri*

Plant Names Scientific & Popular, 1 ed., p. 164.

Gives synonyms, habitat, and use of the drug.

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Greene, E. L.

1901

*Frasera neglecta*

Bot. Gaz., V. 31, p. 212.  
(Index Lond., V. 3, p. 207.)

Gives a description of the plant and tells of some early collections of same; also gives a brief description of *Frasera nitida* and tells how to distinguish between it and the species *neglecta*.

-----

Sollmann, T.

1901

*Frasera Carolinensis*

Text-Book of Pharmacology, 1 ed., p. 714; Ibid., 2 ed., p. 725.

The drug is listed as another "bitter" used in domestic medicine.

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Henkel, Alice

1907

*Frasera carolinensis* Walt.

U. S. D. A. Bur. Plt. Ind., Bull. No. 107, p. 54.  
(Index Lond., V. 3, p. 207.)

Gives synonyms, common names, habitat, description, time of collection, price, and use of the root of the plant.

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Karsten, G. & Schenck, H.

1907

*Frasera speciosa* Dougl.

Veg. - Bild., V. 4, t. 37.  
(Index Lond., V. 3, p. 207.)

Gives the habitat of the plant. This species resembles the species *Walteri*.

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Remington, J. & Wood, H. C.

1907

*Calumba*

U. S. Dispens., 19 ed., p. 262.

The use of *Frasera carolinensis* as an adulterant of *Calumba* is noted.

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Fernald, L. M. & Robinson, L. B. 1908

*Frasera caroliniensis*

Gray's New Manual of Botany, 7 ed., p. 659.

Gives description, habitat, and time of collection of the drug.

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Jepson, W. L. 1911

*Frasera Walteri*

Flora of Western Middle California, 2 ed., p. 320.

Gives brief description of the plant.

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Pammel, L. H. 1911

*Frasera carolinensis*

Manual Poisonous Plants, pt. 2, p. 689.

Contains synonyms and medicinal use of the root of the plant. Also describes the species *Speciosa* and gives its habitat.

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Britton, N. J. & Brown, A. 1913

*Frasera carolinensis* Walt.

Flora N. States & Canada, 2 ed., V. 3, p. 15.  
(Index Lond., V. 3, p. 207.)

Gives description of the genus *Frasera* and mentions that there are about fifteen species of this genus; also gives a description of the species *carolinensis*, synonyms of the plant, habitat, and time of flowering. Also contains an illustration of

the plant.

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Clements, F. E. & E. S.

1914

*Frasera speciosa* Dougl.

Rocky Mt. Flora, 5. 18.  
(Index Lond., V. 3, p. 207.)

Gives a colored plate of the above plant; also identifies plant, and gives description and synonyms of same. Also tells that the plant was named for Fraser in 1788.

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1914

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*Frasera speciosa* Dougl.

Garden, V. 78, p. 56.  
(Index Lond., V. 3, p. 207.)

The original was not available.

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Armstrong, M. N.

1915

*Frasera speciosa* Dougl.

Field Book Western Wild Flowers, p. 369.  
(Index Lond., V. 3, p. 207.)

Gives description of the genus *Frasera*; also gives a full description of the species, *speciosa*, its synonyms and habitat.

-----  
Armstrong, M. N.

1915

*Frasera nitida* Benth.

Field Book Western Wild Flowers, p. 371.  
(Index Lond., V. 3, p. 207.)

Gives a description, habitat, and synonyms of the plant.

Shreve, F.

1915

*Frasera speciosa* Dougl.

Carnegie Inst. Washington, Publ. No. 217, t. 36.  
(Index Lond., V. 3, p. 207.)

This abstract list the plant as having its habitat in the "Fir-Forest Region". This species is similar to the species *Walteri*.

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Tunmann, O

1916

Ueber die Mikrochemie des Gentisins und der gelben Farbstoffe in *Frasera carolinensis*.

Pharm. Zentrhl., V. 57, p. 518; Apoth. Ztg. V. 31, p. 181.  
(Brit. Pharm. Conf., V. 54, p. 59; Jour. Chem. Soc., V. 110, 1 p. 874.)

Describes the appearance of gentisin crystals and chemical reaction of same; also relates two other types of crystals formed and gives the relative percentage of each.

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Rydberg, P. A.

1917

*Frasera Walteri*. American Columbol.

Flora Rocky Mts. & Adjacent Plains, p. 664.

Gives means of identification of the species *Walteri*; also gives a description of the species *fastigiata* and its habitat.

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Hitchcock, A. S.

1919

*Frasera speciosa* Dougl.

Smithsonian Misc. Coll., 70, No. 2, p. 61.  
(Index Lond., V. 3, p. 207.)

Gives description, synonyms, habitat and range, and a picture of the plant.

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Weaver, J. E.

1919

*Frasera speciosa* Dougl.

Carnegie Inst. Publ., No. 286, p. 97.  
(Index Lond., V. 3, p. 207.)

Contains an illustration of the root system of the above plant, and also describes the root in detail.

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Pellet, F. C.

1920

*Frasera speciosa* Dougl.

Am. Honey Plants, 1 ed., p. 163.  
(Index Lond., V. 3, p. 207.)

The above plant is also called "Monument Plant"; also gives other synonyms, habitat, and picture of the plant. It is also recored as being much sought by the bees.

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Committee

1923

*Frasera caroliniensis*

British Pharmaceutical Codex, p. 253.

Mentions the use of *Frasera* as an adulterant of Gentian and how it may be detected.

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Wood, H. C. & La Wall, C. H.

1926

*Frasera*

U. S. Dispens., 21 ed., p. 1309.

Gives description, habitat, constituents, dose, and use of *Frasera* to adulterate *Calumba*.

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Schaeffer, J. H.

1928

Frasera Walteri

Field Manual of the Flora of Ohio, p. 406.

Gives synonyms and description of the plant.

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Bailey, L. H. & Bailey, E. Z.

1930

Frasera. Columbo. Gentianeae.

Hortus Dictionary, p. 262.

Gives description, synonyms, family name, and habitat of the species *Frasera*.

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17 ed., 1894; 18 ed., 1899; 19 ed., 1907; 20 ed., 1918; 21 ed.,  
1926

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United States Pharmacopoeia (O - X)

(18~~30~~<sup>3</sup> - 1920)

and

National Formulary (I - V)

(1888 - 1926)

History

of

*Frasera carolinenses* Walter



Summary of U.S.P. & N.F.

data on *Frasera*.

Official: in U.S.P., 1820, 1830 (N.Y.), 1830 (Phil.), 1840, 1850, 1860, 1870.

Official Latin Title:

*Frasera*: 1820, *Fraserae Radix*: 1830 (N.Y.), *Frasera*: 1830 (Phil.), 1840, 1850, 1860, 1870.

Official English Title:

no English title: 1820, 1830 (N.Y.), 1830 (Phil.), 1840, 1850, 1860, 1870.

Official Abbreviation:

no abbreviation: 1820, 1830 (N.Y.), 1830 (Phil.), 1840, 1850, 1860, 1870.

Official Synonym:

American Columbo: 1820, 1830 (N.Y.), 1830 (Phil.), 1840, 1850, 1860, 1870.

Official Family:

no family given: 1820, 1830 (N.Y.), 1830 (Phil.), 1840, 1850, 1860, 1870.

Scientific Name:

*Frasera Walteri* Mx.: 1820, *Frasera Verticellata*, *Frasera Walteri*: 1830 (N.Y.); *Frasera Walteri* Mx.: 1830 (Phil.), *Frasera Walteri* (Michaux): 1840, 1850, 1860, 1870.

Part Used:

The Root: 1820, 1830 (N.Y.), 1830 (Phil.), 1840, 1850, 1860, 1870.

Signature W. R. Richtmann.

Title Assoc. Prof. of Pharmacology.