

Bibliography of the Cultivation
of Medicinal Plants

WISCONSIN
SCHOOL OF PHARMACY

By

Gerald Jay Hanson

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1921

Evans, J.R.

1859.

Medicinal Plants of the Cherokees.

Proc. Am. Pharm. Assoc., 8, p. 390. (Schneider, p. 6[#]).

Gives a brief discussion of the following plants used by the Cherokees:

Veronica Virginica
Gillenia Stipulacea
Silphium Laciniatum
Eupatorium Perfoliatum
Apocynum Cannabinum
Euonymus Americanus
Cassia Marilandica
Helianthemum Canadense
Rhus Glabra
Asclepias Tuberosa
Hydrangea Arborescens
Verbena Urticaefolia
Valeriana Penciflora
Chenopodium Anthelminticum
Cornus Florida
Cerasus Serotina
Hypericum Corymbosum
Ulmus Racemosa
Persica Punctatum
Silene Stellata

Parrish, E.

1860.

The Culture of Benne in United States.

Proc. Am. Pharm. Assoc., 9, p. 224. (Schneider, p. 13.)

Considers the Benne plant (Sesamum Orientale) as to growth, cultivation and use of seed.

De Vry, J.E.

1861.

Cultivation of Cinchona in Java.

Am. Jour. Pharm., 33, p. 47. (Schneider, p. 6.)

#) All references to Schneider, refer to his compilation of "Literature on Medicinal Plants and Drug Plant Culture." Pharm. Rev. 1908.

In a letter, the author discusses the problems in the cultivation of the tree in Java.

Timbal-Lagrave, M.

1862.

On the Influence of Cultivation upon Medicinal Plants.

Am. Journ. Pharm., 34, p. 268. (Schneider, p. 16.)

A lengthy discussion of the differences in constituents, secretions, etc. of plants, that may be due to differences of soil, climate, etc. Also whether cultivation makes any change in the plants from those growing under natural conditions.

Markham, C.R.

1863.

On the Supply of Quinine and the Cultivation of Cinchona Plants in India.

Am. Jour. Pharm., 35, pp. 365. (Schneider, p. 12.)

Discusses the problems confronted and overcome in introduction and cultivation of first Cinchona plants in India.

De Vry, J.E.

1864.

On the Cinchona Cultivation in British India.

Chem. News, , p. . (Am. Jour. Pharm., 36, p. 321.)
(Schneider, p. 6.)

Tells of cultivation of Cinchona in shade and in sunshine and gives results of analysis of portions of the plant.

Proctor, W.

1864.

The Sweet Gum Tree (Liquidambar styraciflua).

Proc. Am. Pharm. Assoc., 12, p. 222. (Schneider, p. 14.)

A letter telling where the tree is to be found in United States and proposing experiments to ascertain value of the gum.

Proctor, W.

1866.

Sassafras Officinale.

Proc. Am. Pharm. Assoc., 14, p. 211. (Schneider, p. 14).

Discusses Sassafras tree as to:

- Early history
- Habitat
- Parts used in medicine
- Chemical history
- Volatile oil

Guibourt, M.

1866.

Observations on Some Productions of Mexico.

Amer. Jour. Pharm., 38, p. 497. (Schneider, p. 8.)

Considers the following plants in some detail:

- Veratrum Sadabilla
- Dorstenia Contrayerva
- Asclepias Contrayerva
- Helenium Autumnale
- Salvia Hispanica
- Helicarpus Copallifera
- Agave Americana
- Schinus Molle
- Castilleja Elastica

Grahame, I.J.

1867.

On American Opium.

Am. Journ. Pharm., 39, p. 50. (Schneider, p. 7.)

A short article on experiments to determine the morphine and narcotine content of domestic opium.

Broughton, J. 1868.

On a Fake Cinchona Bark of India.

Am. Jour. Pharm., p. 350. (Schneider, p. 4.)

Discussion of false Cinchona (*Hymenodictyon excelsum*)
in its relation to true Cinchona.

Maisch, J.M. 1869.

Lycopodium Clavatum and Other North American Species
as Source of *Lycopodium*.

Proc. Am. Pharm. Assoc., 17, p. 368. (Schneider, p. 12.)

Discusses *Lycopodium clavatum* and other species of
Lycopodium as to habitat and commercial value.

Saunders, W. 1870.

Some Medicinal Plants of Canadian Growth.

Proc. Am. Pharm. Assoc., 18, p. 182. (Schneider, p. 15.)

Gives practical experiences in growing of
Atropa Belladonna
Hyoscyamus Niger
Digitalis Purpurea
Anethum Graveolens
Trigonella Foenum-Graecum
Coriandrum Sativum
Carum Carvi

Maisch, J.M. 1872.

Sneezeweed.

Proc. Am. Pharm. Assoc., 20, p. 233. (Schneider, p. 11.)

Discusses briefly the differences between:
Helenium Autumnale and
Helenium Tenuifolium

Ellacomb, _____. 1875.

Jalap Culture in England.

Garden, ____, p. . (Pharm. Jour., ____, p. 547; Proc. Am. Pharm. Assoc., 23, p. 154.)(Schneider, p. 6.)

Gives several suggestions as to cultivation of jalaps (*Exogonium purga*).

Heany, J.P. 1875.

California Bay Laurel (*Areodaphne Californica*).

Am. Jour. Pharm., 47, p. 105. (Schneider, p. 8.)

Discusses the plant as to:
Botanical description
Medicinal action
Examination of the oil

Kennedy, G.W. 1875.

Kalmia latifolia.

Am. Jour. Pharm., 47, p. 5. (Schneider, p. 10.)

Considers habitat, characteristics and extraction of arbutin.

Miller, A.W. 1875.

Liatris odoratissima, Southern Vanilla or Deer's Tongue.

Proc. Am. Pharm. Assoc., 23, p. 164. (Am. Jour. Pharm., 47, p. 116; Schneider, p. 12.)

Considers use of this plant as a perfume.

Miller, A.W. 1875.

Mezquite Gum.

Proc. Am. Pharm. Assoc., 23, p. 647. (Schneider, p. 12.)

Considers the use of Mezquite gum (*Prosopis juliflora*) in pharmacy and natural habitat of the tree.

Steele, J.G. 1875.

Grindelia robusta.

Proc. Am. Pharm. Assoc., 23, p. 637. (Schneider, p. 16.)

A general article on *Grindelia* as to growth, description, and medicinal preparations.

Jackson, J.R. 1875.

Agave Americana.

Proc. Am. Pharm. Assoc., 23, p. 134. (Schneider, p. 9.)

Discusses briefly the history and uses of the plant as well as the preparation of the juice, which is the chief product.

Hanbury, D. 1875.

Ngai Camphor.

Proc. Am. Pharm. Assoc., 23, p. 141. (Schneider, p. 8.)

It was found that this camphor is obtained from the leaves of a plant known in China under the name of Ngai, a variety of *Artemisia*. The properties of this camphor are given in detail.

Murray, F.R. 1876.

Agave Americana and its Uses.

Am. Jour. Pharm., 48, p. 301. (Schneider, p. 13.)

Discusses the plant as to habitat, growth and uses.

Heany, J.P. 1876.

Megarrhiza Californica.

Am. Jour. Pharm., 48, p. 451. (Schneider, p. 8.)

Considers habitat, growth, medicinal uses and physiological action of the plant.

Gibbons, H.

1879.

Poisonous Species of Astragalus.

Am. Jour. Pharm., 51, p. 237. (Schneider, p. 7.)

Discusses habitat and characteristics of:
Astragalus crotalariae
Astragalus mollissimus

Lloyd, J.U.

1880.

Anemopsis Californica.

Am. Jour. Pharm., 52, p. 4. (Schneider, p. 11.)

Comments on habitat, characteristics, and constituents.

Brown, R.J.

1881.

Catalogue of the Medicinal Flora of the State of Kansas.

Proc. Am. Pharm. Assoc., 29, p. 438. (Schneider, p. 4.)

Lists the medicinal flora of the state as to:
Official name
Common name
Portion of state in which found

Saunders, W.

1882.

On the Germination of Seeds of Medicinal Plants.

Proc. Am. Pharm. Assoc., 30, p. 565. (Schneider, p. 15.)

Gives a list of medicinal plants, considering them as to seed germination. Also depth and best conditions under which to sow seeds.

Maisch, J.M.

1882.

Notes on the Useful American Myrtles.

Am. Jour. Pharm., 54, p. 345. (Schneider, p. 11.)

An article on the American myrtles which yield useful and medicinal products, and giving the substances obtained from each order or suborder with their medicinal action.

Colcord, J.W.

1884.

"Canutillo".

Proc. Am. Pharm. Assoc., 32, p. 462. (Schneider, p. 5.)

Discusses the appearance of the plant, prep. of fluid extract of, and therapeutic value in treatment of gonorrhoea.

Ecales, R.G.

1888.

Pharmacopoeial Indigenous Plants.

West. Drugg., 10, pp. 43 & 79. (Schneider, p. 6.)

Comments on introduction of plants from one country to another. Gives a table of official indigenous drugs as to:

- Common name
- Genus and species
- By whom named
- Order
- Habitat & Character

(Director)

1889.

Drug Cultivation in Jamaica.

Ann. Rpt., 1888; (Chem. & Drugg., 35, p. 219; Schneider,

p. 5.)

Comments on the growth of the following plants in the gardens:

Myristica fragrans
Theobroma cacao
Cinnamomum species
Cola acuminata
Vanilla planifolia
Thea sinensis

Maisch, J.M.

1889.

Indigenous Remedial Plants.

Am. Journ. Pharm., 61, p. 552. (Schneider, p. 11.)

Consideration of preparations, medicinal action, dose, etc., of various plants, among them the following are specifically considered:

Solanum carolinense
Chamalirum luteum

Clavin, J.

1890.

Algarobia Glandulosa.

Am. Jour. Pharm., 62, p. 65. (Schneider, p. 5.)

Discusses the Algarobia Glandulosa or Mesquite as to habitat, characteristics, also medicinal uses of leaves, roots, and gummy exudation.

Rusby, H.H.

1890.

Cascara sagrada and its Allies.

Proc. Am. Pharm. Assoc., 38, p. 203. (Schneider, p. 14.)

Considers methods of distinguishing Rhamnus Purshiana from closely allied species.

Beringer, G.M.

1892.

Some Commercial Vanillas.

Am. Jour. Pharm., 64, p. 289. (Schneider, p. 5.)

Discusses the various commercial vanillas as to where grown, characteristics and quantities exported:

Mexican
Bourbon
Seychelles & Mauritius
South American

1893.

Rose Culture in Bulgaria.

Am. Jour. Pharm., 65, p. 603. (Schneider, p. 14.)

An interesting article on rose (*Rosa damascena*) culture in Bulgaria as regards climate, growing, cultivation, distillation, and amount produced.

Hires, C.E.

1893.

A Talk on Vanillas.

Am. Jour. Pharm., 65, p. 571. (Schneider, p. 9.)

Discusses cultivation of vanilla in Mexico.

Crawford, Joseph.

1893.

Some Local Indigenous Plants of Medical Interest.

Am. Jour. Pharm., 65, pp. 42 & 149.

Gives a detailed account of the native medicinal plants as to:

Family
Habits
Growth
Characteristics
Medicinal action

Blochman, Ida M.

1893.

California Herb-lore.

Erythea, 1, pp. 190 & 231; (Schneider, p. 3.)

Discusses the plants used as to their botany, growth, part used, medicines prepared and what used for. Some plants discussed are:

Perezia microcephala
Trichostema lanatum
Aspidium rigidum var. argatum
Daucus pusillas
Zauschneria Californica

Fawcett, W.

1894.

Report on Ginger Crops in Jamaica.

Am. Jour. Pharm., 66, p. 593. (Schneider, p. 6.)

Considers soil, methods of fertilizing and curing of ginger.

Blochman, Ida M.

1894.

California Herb-lore.

Erythea, 2, pp. 9, 39, & 162. (Schneider, p. 3.)

Discusses following plants used as medicine, as to growth, part used, remedy prepared, and for what used:

Cucurbita foetidissima
Chenopodium Californicum
Chlorogalum pomeridianum
Ephedra Californica
Croton Californicus
Heleniastrum puberulum
Poenia Californica
Malva parviflora

Trimble, H.

1894.

The Cultivation of Ginseng.

Am. Jour. Pharm., 66, p. 399. (Schneider, p. 17.)

The author quotes several articles which give practical information on ginseng cultivation.

Sherrard, C.C.

1894.

Saw Palmetto (*Sabal Serrulata*).

Proc. Am. Pharm. Assoc., 42, p. 309. (Schneider, p. 15.)

Gives the botanical source and history of the plant, as well as, a description, together with best conditions for growth. The constituents with their percentages are given and also a discussion of the medicinal value of the drug.

Bastin, E.S.

1895.

Some Further Observations on Cherry Bark.

Am. Jour. Phar., 67, p. 595. (Schneider, p. 3.)

Discusses *Prunus Virginiana* as to habitat and difference between western and eastern barks.

Pierce, N.B.

1896.

Olive Culture in the United States.

Yrbk. Y.S.D.A., p. 371. (Schneider, p. 14.)

The author goes into detail in discussing the cultivation of the olive in this country.

Kilmer, F.B.

1898.

In the Land of Ginger - Jamaica.

Am. Jour. Pharm., 70, p. 65. (Schneider, p. 10.)

Gives a detailed account of growing of *Zingiber officinale* in Jamaica.

Kilmer, F.B.

1900.

In Lands Where Drugs Grow.

Am. Jour. Pharm., 72, p. 155. (Schneider, p. 10.)

A discussion of drug-growing in England and on the continent of Europe.

Lewton, F.L. 1900.

The Cultivation and Economics of Agaves.

Am. Jour. Pharm., 72, p. 327. (Schneider, p. 11.)

Discusses the Agaves as to habitat, medicinal and general uses.

Kraemer, H. 1902.

The Conservation and Cultivation of Medicinal Plants.

Amer. Jour. Pharm., 74, p. 311. (Schneider, p. 10.)

Discusses some of the factors influencing the quality of vegetable drugs.

Nelson, E.W. 1902.

The Agaves.

Yrbk. U.S.D.A., p. 313. (Schneider, p. 13.)

This remarkable group of plants is treated as to character and distribution, principal types, miscellaneous uses, use as food and use in textiles.

Illustrated.

Munson, W.M. 1903.

Taraxacum.

Maine Agr. Expt. Sta., Bull. No. 95, p. 109. (U.S.D.A. Farm Bull., No. 186.) (Schneider, p. 19).

A short article on cultivation of the dandelion and treatment of the plant in order to eradicate it.

Corbett, L.C.

1904.

Annual Flowering Plants.

U.S.D.A. Farm. Bull., No. 195. (Schneider, p. 19.)

A general introduction containing general cultural suggestions and discussion of hot-beds and cold frames. The balance of the article considers annual flowering plants, individually, as to sowing, cultivation, etc.

Lloyd, J.U.

1904.

History of *Echinacea Augustifolia*.

Am. Jour. Pharm., 76, p. 15. (Schneider, p. 11.)

Discusses the first introduction of the above into medicine.

Schneider, A.

1904.

Gardens of Medicinal Plants.

Am. Jour. Pharm., 76, p. 19. (Schneider, p. 15.)

The article considers medicinal gardens under the following headings:

1. Prefatory
2. Historical
3. Purposes
4. Plants to be grown
5. Grouping of plants

1908.

Cultivation and Collection of Medicinal Plants.

Chem. & Drugg., Diary, p. 229.

The article is written with the following headings:

- Introduction
- Reasons for cultivation
- Drug growing in England
- Scientific culture needed
- Plant propagation

The drug harvest
Leaves and herbs
Flowers and Seeds
Barks
Roots
Botanical calender
Proper season for gathering various plants
Starting a drug garden

The cultivation of the following plants are considered specifically:

Aconitum Napellus
Atropa Belladonna
Solanum Dulcamara
Cytisus Scoparius
Tanus Communis
Menyanthus Trifoliata
Rhamnus Catharticus
Arctium Lappa
Cinnamom Camphora
Carum Carvi
Rhamnus Purshiana
Ricinus Communis
Anthemis Nobilis
Chenopodium Anthelminticum
Cinchona Species
Colchicum Autumnale
Tussilago Farfara
Agropyrum Repens
Taraxacum Officinale
Peucedanum Graveolens
Rumex
Sambucus nigra
Digitalis Purpurea
Hydrastis Canadensis
Conium Maculatum
Hyoscyamus Niger
Marrubium Vulgare
Cochlearia Armoracia
Lavandula Vera
Lactuca Virosa
Lactuca Sativa
Glycyrrhiza Glabra
Lobelia Inflata
Aspidium Filix-mas
Althaea Officinalis
Daphne mezereum
Verbascum Thapsus
Brassica Nigra
Mentha Pulegium
Mentha Piperita
Phytolacca Decandra

Papaver somniferum
Papaver Rhoeas
Rheum Rhaponticum
Rosa Gallica
Rosmarinus Officinalis
Ruta Graveolens
Crocus Sativus
Juniperus Sabina
Mentha Viridis
Ecballium Elaterium
Datura Stramonium
Tanacetum Vulgare
Valeriana Officinalis
Artemesia Absinthium
Achillea Millefolium

Newcomb, E.L. & Haynes, M.H.

1916.

Hyoscyamus, Cultivated in Minnesota.

Am. Jour. Pharm., 88, p. 1.

From experiments at the Medicinal Plant Garden, Univ. of Minn. data is given covering the sowing, germination of seed, and cultural methods, together with a table of results of moisture, ash and alkaloidal determinations.

Newcomb, E.L.

1916.

Drug Cultivation in the Northwest.

Pharm. Era, 49, p. 182.

An illustrated article showing work done at Pharmaceutical Gardens of Univ. of Minn. Some drugs shown and discussed are:

Rheum Officinale
Rheum Palmatum
Rheum Rhaponticum
Atropa Belladonna
Hyoscyamus Niger
Datura Stramonium
Aspidium Marginale
Aspidium Felix mas
Cannabis Sativa
Echinaceae Angustifolia
Inula Helenium
Digitalis Purpurea
Delphinium Staphisagria

Stockberger, W.W.

1916.

Botanic Drugs, How to Cultivate.

Pharm. Era, 49, p. 179.

Considers the subject under the following heads:

What steps should be taken

An investment of \$50,000 necessary

Equipment similar to modern truck farm

The question of marketing

Youngken, H.W.

1916.

Importance of Drug Plant Cultivation in the United States.

Am. Jour. Pharm., 88, p. 171.

The writer emphasizes the need of drug plant cultivation in the U.S. -due to cutting off of supply from Germany.

Stockberger, W.W.

1916.

Drug Plant Culture in 1916.

Jour. Am. Pharm. Assoc., 5, p. 1068.

A general discussion of the subject, advising against the average man attempting drug plant culture on a small scale and gives illustrations. Cites value of this work at the various universities in this country.

Zornig, J.

1916.

Drug Plants, Cultivation in Germany.

Pharm. Zentralhalle, 57, p. 244.

Reviewing past results and future possibilities appertaining to the economic and commercial sides of drug culture in Germany.

Arny, L.W.

1916.

Drug Plants, Cultivation in the United States.

Drugg. Circ., 60, p. 597.

An article with illustrations on drug culture in general, dealing with plant selection as a means of improvement in alkaloidal content.

Sayre, L.E.

1916.

Golden Seal Gardens.

Drugg. Circ., 60, p. 601.

Describes the conditions under which Golden Seal is grown in the gardens at Douglas, Michigan.

Johnson, W.M.

1916.

Old-Time Cultivation of Drug Plants.

Drugg. Circ., 60, p. 605.

The writer tells of the herbs which were used as remedies in the earlier days and recommends gardening as a source of long life, health, pleasure and contentment.

1917.

Dumbartonshire Herb-growing Association.

Chem. & Drugg., 89, p. 171.

At first annual meeting at Helensburgh, Scotland, it was stated that work done was experimental. Henbane crop lost, due to wet and sunless weather.

Elder flowers and foxglove leaves were collected and dried.

1917.

Medicinal Plants.

Chem. & Drugg., 89, p. 295.

Discusses the changed attitude in England in regard to medicinal plant culture and contradicts the Board of Agriculture when it claims only the four following drug plants are important:

Belladonna
Henbane
Digitalis
Colchicum

1917.

Worcestershire Medicinal Herbs.

Chem. & Drugg., 89, p. 233.

An association in Worcestershire, England, is successfully cultivating medicinal plants and plans to erect a new drying shed. Receipts for 1916 shown from:

Belladonna
Henbane
Blessed Thistle

1917.

Drug Plant Cultivation in France.

Chem. Abst., 11, p. 3093.

In a presentation along historical lines, data is given as to which regions in which certain plants grow best. Outlines principles in cultivating and harvesting of the plants.

1917.

Medicinal Plants.

Chem. & Drugg., 89, p. 38.

Books, pamphlets and lectures on the cultivation of medicinal plants being circulated in Germany.

1917.

Sheffield Medical Herbalists.

Chem. & Drugg., 89, p. 46.

Tells of a visit to the herb-garden of H.R.G. Skelton.

1917.

Herb-Drying Industry.

Chem. & Drugg., 89, p. 36.

Tells of visit to herb-drying and packing establishment at Blakenham Mill, England.

1917.

Medicinal Plants, Collection in Germany.

Apoth.-Zeitg., 32, p. 136; (Pharm. Journ., 98, p. 365.)

Cites instances of the collection of medicinal plants under supervision of local pharmacists and in which school children take an active part.

1917.

Drug Plant Cultivation in India.

Pharm. Journ., 99, p. 149.

The government of India is beginning to support herb-growing by supporting local organizations. An organization has been formed with the purpose of producing drugs of a high standard. Some drugs easily grown in this region are:

Belladonna
Digitalis
Henbane
Ipecac
Jalap

"A Drug Grower".

1917.

Cultivation of Medicinal Plants.

The "Lancet", I, 1917, p. 849; (Chem. & Drugg., 89, p. 511.)

Comments briefly on the cultivation of the following:

Aconite
Taraxacum
Agropyrum
Male Fern
Chamomile
Valerian

(Committee)

1917.

Chem. & Drugg. 89, p. 545.

The Committee in Austria recommends that medicinal herb culture be gone at systematically.

Ellis, Mrs. J.D.

1917.

Herbs Used in Medicine (First Series).

Chem. & Drugg., 89, p. 278.

Information on growing and collecting the following:

Agrimony
Centuary
Chamomile
Deadly Nightshade
Feverfew
Henbane
Marshmallow
Meadow Saffron
Opium Poppy
Poison Hemlock
Sweet Flag
Tansy
Valerian
Wood Betony

Lybing, ___.

1917.

Drug Plant Cultivation in Gothland.

Svensk Farm. Tidsskrift, __, p. ___; Pharm. Journ., 99, p. 88.

The author states that the island is favorably situated, inasmuch as the climate is comparatively mild, though dry. Among plants cultivated are:

Althaea Officinalis
Atropa Belladonna
Datura Stramonium
Digitalis Purpurea
Hyoscyamus Niger
Papaver Somniferum
Valeriana Officinalis

Senft, E.

1917.

Drug Plant Cultivation in Germany.

Apoth. Zeitg., 38, p. 113.

Outlines a history of drug plant cultivation in Germany from days of Charlemagne to present period of war.

Shenstone, J.C.

1917.

Herb-Growing in the British Empire: its Past, Present, and Future.

Chem. & Drugg., 89, p. 411.

The author read a paper at a meeting of the Royal Society of Arts in London and sketched the position of herb-growing in the past. He also advised that more attention be paid to the cultivation of medicinal plants in the future.

The National Herb Federation.

1917.

Cultivation of Medicinal Plants.

Chem. & Drugg., 89, p. 363.

In a letter the Federation takes issue with the Board

of Agriculture in its statement that the "four essentials", Belladonna, Henbane, Digitalis and Colchicum only are needed. It goes on to show that other drugs are needed and that the people should be instructed as how to sell as well as cultivate.

Tocher, J.F.

1917.

Report of Highland and Agricultural Society.

Chem. & Drugg., 89, p. 47.

States that Scotland is not a particularly genial soil for the growth of the more powerful medicinal plants. Colchicum, however, was found to contain higher than the average proportion of the active principle.

States that drug-farming requires considerable skill and knowledge of plant life.

Tschirch, A.

1917.

Drug Plant Cultivation in Switzerland.

Schweiz. Apoth. Ztg., 55, p. 376; Chem. Abstr., 11, p. 3377.

Discusses the following phases of drug-farming:

1. Planning cultivation according to requirements of plants and available conditions of climate and soil.
 2. Proper selection of seeds and shoots.
 3. Cultivation on a small scale not to be neglected.
 4. Judicious fertilizing.
 5. Keeping out weeds.
 6. Rapid drying at low temperature.
 7. Both economic and chemical control.
 8. Centralization of the scientific study of the whole question.
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Wren, R.C.

1917.

Medicinal Herbs.

Chem. & Drugg., 89, p. 383.

Suggests that the National Herb Federation (England) prepare a list of the drug plants which it would be profitable to grow.

1918.

Drug Cultivation in Germany.

Apoth. Zeitg., 32, p. 92; (Pharm. Journ., 100, p. 16.)

A report of the collection of medicinal and useful plants in the Heidelberg district.

1918.

Acorus Calamus.

Chem. & Drugg., 90, p. 45.

States that a large quantity of sweet-flag rhizome has been harvested from the lake of Shirburn Castle.

1918.

Belladonna Cultivation.

Chem. & Drugg., 90, p. 439.

A letter from Stafford Allen and Sons Ltd. in which it is claimed that the Surrey district does not grow as much Belladonna as some of the older established pharmaceutical houses of England.

1918.

Supply of Medicinal Plants in England.

Chem. & Drugg., 89, p. 371.

An article discussing amounts used and produced annually:

Belladonna
Henbane
Foxglove

Colchicum
Cinchona
Ipecacuanha
Coca
Opium

1918.

Drug Farming.

Chem. & Drugg., 90, p. 520.

Some text-books on above subject:-

Teetgen's "Profitable Herb-Growing and Collecting".
Holmes' "Cultivation and Drying of Medicinal
Plants".

1918.

Drug Culture, Symposium on

Journ. Am. Phar. Assoc., 7, p. 128.

A very interesting and instructive article of drug
cultivation, in general, given in papers by the following
men:

Stockberger, W.W.
Kremers, E.
Fuller, H.C.
Lyman, R.A.
Lloyd, J.U.
Sayre, L.E.

Bennett, R.K.

1918.

Vegetable Drugs.

Chem. & Drugg., 90, p. 664.

Advises growing of drug-plants and shows specimens of
following British-grown drugs:

Belladonna root & leaves
Aconite root
Hyoscyamus
Stramonium
Digitalis

Colchicum corm
Colchicum seed
Chamomiles
Rhubarb root
Taraxacum
Valerian

(Correspondent)

1918.

An Experience in Egypt.

Chem. & Drugg., 90, p. 222.

Tells of finding the following medicinal plants in Egypt:

Colocynth apples
Castor oil plant
Senna

Cushman, A.S.

1918.

Growing Medicinal Plants in America.

Am. Jour. Pharm., 90, p. 864.

The author discusses a few of the difficulties encountered by a group of associates who took up the work with the purpose, if possible, of showing that American methods were capable of making us independent of Europe for necessary medicinals. Several illustrations.

Farwell, O.A.

1918.

Cultivation of Medicinal Plants.

Drugg. Circ., 62, p. 106.

Difficulties of drug cultivation considered. Discusses methods of cultivation of:

Belladonna
Henbane
Digitalis
Hydrastis

Fuller, H.C.

1918.

Drug-Growing.

Drugg. Circ., 62, p. 5.

Points out the difficulties which confront the amateur grower and states that this work should be attempted only by specially trained and equipped agriculturists.

Fuller, H.C.

1918.

Scientific Drug Farming.

Journ. Am. Pharm. Assoc., 7, p. 123.

Gives some reasons why the average man should not attempt to grow drugs on a small scale:

1. Difficulty of getting good seed.
2. Market conditions in drug trade.
3. Necessity of greenhouse and other equipment.
4. Laboratory for testing strength of drugs grown.

Hill, C.A.

1918.

Chem. & Drugg., 90, p. 569.

In the annual address before the British Pharmaceutical Conference, he laments the absence of poppies and linseed cultivation and the disappearance of meadow saffron.

Koultchitzkii, I.

1918.

Drug Plant Cultivation in Russia.

Bull. Agr. Intelligence, 8, p. 1227; (Chem. Abst., 12, p. 1332.)

Describes work done at Agricultural Station at Bezentchuk during 1916 and gives some yields on work done.

Miller, F.A.

1918.

Drug Plant Cultivation - Drug Plant Breeding.

Journ. Am. Pharm. Assoc., 7, p. 124.

The author relates experiments in plant breeding and discusses work on:

Cannabis
Belladonna
Henbane
Hyoscyamus Muticus.

Mueller, N.R.

1918.

Cultivation of Henbane.

Journ. Am. Pharm. Assoc., 7, p. 127.

An article on henbane, discussing soil, seed, cultivation and harvesting.

Stockberger, W.W.

1918.

Drug Cultivation, Some Plain Facts About

Drugg. Circ., 62, p. 106.

Production is taken up under following heads:

1. Cost of production.
2. Disposal of the product.
3. Extent of market requirements.
4. Drug-growing in greenhouses.
5. Drug-growing must have a sound basis.

The author does not advise small growers to attempt drug cultivation.

Tschirch, A.

1918.

Oleum et Opium.

Schweiz. Apoth. Ztg., 56, p. 149; (Chem. Abst., 12, p. 1337.)

The writer urges more intensive cultivation of oil-producing plants in Europe and then discusses the history

of European opium culture.

Voulf, Pigouleoskii, & Albrecht. 1918.

Drug Plant Cultivation in Crimea.

Bull. Agr. Intelligence, 8, p. 876; (Chem. Abst., 12, p. 739.)

The authors describe their work on the raising of aromatic plants in the Imperial Botanical Garden at Nikitskii (South Crimea).

Xrayser II 1918.

Chem. & Drugg., 90, p. 689.

Reviews Mrs. J.D. Ellis's book, "Herbs Used in Medicine", and regrets lack of system used in discussing the medicinal plants.

Koch, G.P. 1919.

Hyoscyamus Niger.

Am. Jour. Pharm., 91, p. 68.

Considers *Hyoscyamus Niger* under the following headings:

- Germination of seeds
- Effect of inorganic fertilizers upon the growth and development
- Control of insects
- Seed formation
- The alkaloid content and the utilization of the various parts of the plant.

Koch, G.P. & Butler, J.R. 1919.

Digitalis Purpurea.

Am. Jour. Pharm., 91, p. 211.

Considers the cultivation of Digitalis in the United States under the following:

- Study of germination of Digitalis
- Study of planting of Digitalis
- Effect of fertilization upon the growth of Digitalis
- Effect of certain inorganic salts upon the growth and alkaloid content of Digitalis
- Insects and diseases affecting Digitalis
- Effect of drying at different temperatures upon the activity of Digitalis

Todd, P.H.

1919.

The Cultivation of Aromatic Plants in the United States.

Am. Jour. Pharm., 91, p. 437.

Deals with the volatile oils used in the perfume industry as:

- Oil of lavender
- Rosemary oil
- Geranium oil
- Oil of neroli
- Orris oil

Climate, cultivation and soil for each are considered.

Woodworth, C.M.

1919.

The Application of the Principles of Breeding to Drug Plants, Particularly Datura.

Bull. Univ. Wis. Ser. No. 1005 G.S. No. 789.

The experiments with Datura Stramonium are considered under the following heads:

- Introduction
- Variation
- Heredity
- Mendel's discovery
- Laws of heredity
- Experimental results with Datura
- Advantages in crossing plants
- Improvement in alkaloid content through crossing
- Technique of hybridizing Datura
- Selection
- Mass selection
- Pure line selection

Correlation of characters
Mutations
Fifteen illustrations
One table.

1920.

Nigerian Kola.

Chem. & Drugg., 93, p. 951.

States that Gold Coast variety of kola can be successfully grown in the Southern Provinces.

1920.

Indian Belladonna, Cultivation

Chem. & Drugg., 93, p. 1399.

Urges cultivation of Belladonna in India. Gives figures on the crop for 1920.

1920.

The Cultivation of Buchu.

Chem. & Drugg., 93, p. 1580.

Tells of experiments in cultivation as to weather conditions, soil, yield, etc. Results indicate Buchu betulina to be the most valuable.

1920.

Drug Cultivation in India.

Chem. & Drugg., 93, p. 1635.

Urges cultivation of drugs in India and tells of reports indicating Indian drugs to be of high quality.

1920.

Madras Cinchona Plantations.

Chem. & Drugg., 93, p. 1345.

Comments on the growth of the quinine industry, present shortage, need of increasing production, yields and prices.

Cabellero, __. __.

1920.

Spanish Thyme.

Chem. & Drugg., 93, p. 999.

Gives a botanical description of the various species of thyme found in Spain, especially those used as a source of thymol. The soil and conditions under which the different species are found is indicated.

Xrayser II.

1920.

The Chrysanthemum.

Chem. & Drugg., 93, p. 1667.

Comments as to what flower has the best right to the name, the claim being that in England. The Corn Marigold (*Chrysanthemum Segetum*) has the best claim.

Guyer, R.G.

1921.

Cultivation of Medicinal Plants in Scotland.

Pharm. Jour., __, pp. __.

Gives historical data on medicinal gardens in Scotland. Then discusses the following plants individually:

- Aconitum Napellus
- Atropa Belladonna
- Colchicum Autumnale
- Digitalis Purpurea
- Hyoscyamus Niger
- Papaver Rhoëas
- Rosa Gallica
- Rosa Damascena
- Rosa Centifolia

Datura Stramonium
Valerian Officinalis
Cytisus Scoparius
Calendula Officinalis
Conium Maculatum
Anthemis Nobilis
Taraxacum Officinale
Sambucus Nigra
Foeniculum Capillaceum
Juniperus Communis
Glycyrrhiza Glabra
Rhleum Pratense
Veratrum Viride
Aspidium Filix-mas

Index to Literature.

The following index contains the data from the following theses:-

	<u>Abrev.</u>
1. Federer, F.A. 1915. The Cultivation of Medicinal Plants in the United States. (Journal Literature)	F XF
2. Rupp, C.E. 1918. The Cultivation of Medicinal Plants.	R
3. Lanz, A. 1919. The Cultivation of Medicinal Plants.	L
4. Hanson, G.J. 1921. Bibliography of the Cultivation of Medicinal Plants.	H

Botanical names of the plants are listed alphabetically. Under each plant is given the name of the author, and the year of publication.

The single letter following the data, refers to the particular thesis as indicated above.

Abies balsamea. Green, 1892 - L.

Abies concolor. _____, 1890 - L.

Acacia senegal. Saunders, 1889 - L; 1897 - L; Piatti, 1903 - L.

Acacia species. Mason, 1886 - L.

Acacia vera. Brown, 1855 - L.

Achillae millefolium. Green, 1892 - L; Henkel, 1904 - XF; 1908 - H.

Aconitum columbianum. Chestnut, 1901 - L.

Aconitum napellus. Castle, 1886 - L; Petzold-Suz, 1897 - L; Allen, 1913 - L; Whatmough, 1914 - L; Stockberger, 1915 - L; Holmes, 1881 -

XF; Saunders, 1882 - XF; Holmes, 1888,
XF; Holmes, 1889 - XF; Holmes, 1900 -
XF; Gordon, 1910 - XF; Ransom, 1902 -
XF; True, 1902 - XF; Holmes, 1905 - XF;
Cooper, 1913 - R; A drug grower, 1917 -
R; Schneider, 1917 - R; _____, 1917 -
R; A drug grower, 1917 - H; _____,
1908 - H; Guyer, 1921 - H.

Aconitum wilsonii. Baker, 1915 - L.

Acorus calamus. Petzold-Suz, 1897 - L; Stockberger, 1915 -
L; _____, 1914 - XF; Henkel, 1907 - F;
_____, 1914 - R; Johnson, 1917 - R;
_____, 1917 - R; _____, 1918 - H.

Actaea racimosa. Henkel, 1904 - F.

Aesculus hippocastanum. Henkel, 1909 - F.

Agave americana. Guibourt, 1866 - H; Jackson, 1875 - H;
Murray, 1876 - H; Lewton, 1900 - H;
Nelson, 1902 - H.

Agrimonia. Ellis, 1917 - H.

Agrimonia officinalis. Saunders, 1882 - XF.

Agropyron repens. Henkel, 1904 - F; Henkel, 1907 - F;
Umney, 1917 - R; A Drug Grower, 1917 -
R; _____, 1908 - H.

Aletris farinosa. Stockberger, 1915 - L; Henkel, 1907 - F.

Algarobia glandulosa. Clavin, 1890 - H.

Alkanna tinctoria. Petzold-Suz, 1897 - L.

- Allium sativum*. Bergtheil, 1917 - R.
- Alnus rugosa*. Henkel, 1909 - F.
- Aloe*. Hooper, 1913 - R.
- Aloe vera*. Wilcox, 1916 - L.
- Altheae officinalis*. Vasey, 1885 - L; Petzold-Suz, 1897 - L; Tschirch, 1912 - L; Stockberger, 1915 - L; Holmes, 1900 - XF; Holmes, 1905 - XF; _____, 1915 - XF; True, 1912 - R; Wasicky, 1913 - R; _____, 1914 - R; Wulling, 1915 - R; Ellis, 1917 - H; Lybing, 1917 - H; _____, 1908 - H.
- Althaea rosea*. Baker, 1886 - L; Petzold-Suz, 1897 - L.
- Amanita phalloides*. Chestnut, 1896 - L.
- Amelopsis californica*. Vasey, 1885 - L.
- Amygdala dulcis*. Tschirch, 1912 - L.
- Anacyclus Pyrethrum*. Loring, 1881-1882 - L; _____, 1897 - L.
- Andropogon*. Umney, 1912 - R; Hood, 1917 - R; _____, 1917 - R.
- Anemone hepatica*. Petzold-Suz, 1897 - L.
- Anemone pulsatilla*. Castle, 1886 - L; _____, 1915 - XF.
- Anemopsis Californica*. Lloyd, 1880 - H.
- Anethum foeniculi*. Browne, 1854 - L.
- Anethum graveolens*. Browne, 1854 - L; True, 1903 - L; Allen, 1913 - L; Stockberger, 1915 - L; Holmes, 1881 - XF; Saunders, 1882 - XF; Holmes, 1900 - XF; Umney, 1912 - R;

Evans, 1912 - R; Holmes, 1912 - R;
Allen, 1912 - R; Greenish, 1912 - R;
Barrett, 1912 - R; Cooper, 1913 - F;
Bergtheil, 1917 - R; Holmes, 1917 -
R; Umney, 1917 - R; Saunders, 1870 -
H.

Angelica archangelica. Saunders, 1882 - XF.

Angelica atropurpurea. Henkel, 1907 - F.

Angelica officinalis. Stockberger, 1915 - L.

Anthemis nobilis. Brown, 1854 - L; Petzold-Suz, 1897 - L;
Whatmough, 1914 - L; Holmes, 1905 - XF;
_____, 1908 - H; Guyer, 1921 - H.

Anthusa italica. Saunders, 1882 - XF.

Apium petroselinum. Holmes, 1900 - XF.

Apocynum. _____, 1915 - XF.

Apocynum androsaemifolium. Chestnut, 1901 - L.

Apocynum cannabinum. Chestnut, 1901 - L; Georgian, 1914 -
L; Henkel, 1907 - F.

Apocynum perfoliatum. Evans, 1859 - H.

Aralia nudicaulis. Henkel, 1907 - F.

Arctium lappa. Castle, 1886 - L; Hood, 1907 - L; Stock-
berger, 1915 - L; Miller, 1912 - XF;
_____, 1915 - XF; Henkel, 1904 - F;
Henkel, 1907 - F; _____, 1914 - R;
_____, 1908 - H.

Areca Catechu. Wilcox, 1916 - L; Mac Millan, 1913 - R.

- Arisaema triphyllum*. Vasey, 1885 - L; Henkel, 1907 - F.
- Aristolochia reticulata*. Henkel, 1907 - F.
- Aristolochia Serpentaria*. Vasey, 1885 - L; Castle, 1886 -
L; Henkel, 1907 - F.
- Arnica monocephala*. Chestnut, 1901.
- Arnica montana*. Stockberger, 1915 - L; True, 1902 - XF.
- Aromatic Plants. Voulf, Pigouleoskii, & Albrecht,
1918 - H.
- Artemesia*. Cooper, 1913 - R; _____, 1913 - R.
- Artemisia abrotanum*. Petzold-Suz, 1897 - L; Holmes,
1900 - XF.
- Artemisia absinthium*. Browne, 1854 - L; Mason, 1889 - L;
Petzold-Suz, 1897 - L; Rabak,
1910 - L; Whatmough, 1914 - L;
Stockberger, 1915 - L; Holmes,
1881 - XF; Saunders, 1882 - XF;
Holmes, 1900 - XF; _____, 1914 - XF;
_____, 1908 - H.
- Artemesia dracunculus*. Holmes, 1900 - XF.
- Artemisia species*. Baker, 1915 - L.
- Artemesia vulgaris*. Holmes, 1900 - XF.
- Asarum*. _____, 1914 - XF.
- Asarum canadense*. Vasey, 1885 - L; Henkel, 1907 - F.
- Asarum himalaicum*. Baker, 1915 - L.
- Asclepias contrayerva*. Guibourt, 1866 - H.
- Asclepias tuberosa*. Green, 1892 - L; Saunders, 1882 - XF;
Henkel, 1907 - F; Evans, 1859 - H.

Asimina triloba. Cowley, 1913 - R.

Aspidium. Holmes, 1905 - XF; _____, 1914 - XF; A Drug
Grower, 1917 - R.

Aspidium Felix-mas. Newcomb, 1916 - H; _____, 1908 - H;
Guyer, 1921 - H.

Aspidium marginale. Newcomb, 1916 - H.

Aspidium rigidum, var. *argutum*. Blachman, 1893 - H.

Astragalus crotalariae. Gibbons, 1879 - H.

Astragalus gummifer. Nathan, 1910 - L; Bader, 1915 - L.

Astragalus mollissimus. Gibbons, 1879 - H.

Atropa Belladonna. Gordon, 1900 - XF; Holmes, 1900 - XF;
Ransom, 1902 - XF; True, 1902 - XF;
Carr, 1908 - XF; _____, 1910 - XF;
Miller, 1915 - XF; Kilmer, 1915 - XF;
_____, 1915 - XF; Evans, 1912 - R;
Henderson, 1912 - R; Editor, 1912 - R;
Schneider, 1912 - R; (True, ²1912) - R;
Carr, 1913 - R; Cooper, 1913 - R;
Hooper, 1913 - R; Schneider, 1913 - R;
Newcomb, 1914 - R; (Sievers, 1914)³ - R;
True, 1903 - L; Lloyd, 1905 - L;
Lloyd, 1905 - L; Hood, 1907 - L;
Schneider, 1909 - L; Borneman, 1912 -
L; Carr, 1912 - L; Ransom, 1912 - L;
Miller, 1913 - L; Sievers, 1913 - L;
Miller, 1914 - L; Miller-Reed, 1914 -
L; Whatmough, 1914 - L; Farwell,

1915 - L; Stockberger, 1915 - L;
Army, 1917 - L; Holmes, 1881 - XF;
Saunders, 1882 - XF; Holmes, 1890 -
XF; Holmes, 1899 - XF; _____, 1914 (2)
R; Umney, 1915 - R; Sievers, 1916 - R;
Schneider, 1917 (2) - R; Sievers,
1917 - R; _____, 1917 (4) - R; Wull-
ing, 1915 - R; Holmes, 1916 - R;
Saunders, 1870 - H; Newcomb, 1916 - H;
_____, 1917 - H; Ellis, 1917 - H;
_____, 1917 - H; Lybing, 1917 - H;
_____, 1917 - H; _____, 1918 - H;
_____, 1918 - H; _____, 1908 - H;
Farwell, 1918 - H; Miller, 1918 - H;
_____, 1920 - H.

Aya pana. Mac Millan, 1913 - R.

Baptisia tinctoria. Henkel, 1907 - F.

Barosma. Von Wielligh, 1913 - R.

Benzoin. Henkel, 1909 - F.

Berberis aquifolium. Henkel, 1907 - F.

Berberis vulgaris. Greene, 1892 - L; Saunders, 1882 - XF.

Betula alba. Green, 1892 - L; True, 1907 - L; Ellis,
1917 - H.

Betula lenta. Henkel, 1909 - F.

Blumea balsamifera. Michael, 1911 - L; Baker, 1914 - L.

Brassica alba. Holmes, 1905 - XF.

Brassica campestris v. Rapa. Dougherty, 1903 - L; True,

1907 - L; Tschirch, 1912 - L.

Brassica nigra. Holmes, 1905 - XF; Henkel, 1904 - F;

Henkel, 1913 - F; _____, 1918 - H.

Brauneria Angustifolia. Stockberger, 1915 - L; Henkel,

1907 - F.

Brauneria pallida. Stockberger, 1915 - L.

Bryonia alba. Saunders, 1882 - XF.

Bryonia dioica. Holmes, 1905 - XF.

Buchu. _____, 1920 - H.

Cacao praeparata. Mac Millan, 1913 - R.

Calamus. Ellis, 1917 - H.

Calendula officinalis. Petzold-Suz, 1897 - L; Corbett,

1904 - L; Stockberger, 1915 - L;

Saunders, 1882 - XF; Guyer,

1921 - H.

Camelina sativa. Simmonds, 1871 - L.

Cannabis. Eckler, 1912 - R; Miller, 1912 - R; True,

1912 - R; Wulling, 1915 - R; Johnson, 1917 - R;

Schneider, 1917 (2) - R; Miller, 1918 - H.

Cannabis indica. True-Klugh, 1909 - L; Willis, 1909 - L;

Dewey, 1910 - L; Stewart, 1910 - L;

Borneman, 1912 - L; Randall, 1912 - L;

Wilcox, 1916 - L.

Cannabis sativa. Dodge, 1895 - L; Dewey, 1901 - L;

Pieters, 1901 - L; Houghton, 1908 - L;

_____, 1909 - L; Hamilton, Lescohier,

Perkins, 1913 - L; Miller, 1914 - L;

Baker, 1915 - L; Stockberger, 1915 - L;
Hamilton, 1916 - L; Borneman, 1912 -
XF; _____, 1915 - XF; Newcomb, 1916 -
H.

Canutillo. Colcord, 1884 - H.

Capsicum annum. Browne, 1854 - L; True, 1903 - L; Rid-
ley, 1912 - L; Simmonds, 1877 - L.

Capsicum fastigiatum. True, 1903 - F.

Capsicum frutescens. Gibbs, 1909 - L; Clute, 1914 - L;
True, 1912 - R; Wulling, 1915 - R;
_____, 1917 - R.

Cardenia benedictus. Pätzold-Suz, 1897 - L.

Carica papaya. Tschirch, 1891 - L; Fee, 1902 - L.

Carthamus tinctoria. Simmond, 1877 - L; Gordon, 1900 - XF.

Carum carvi. Brown, 1854 - L; Castle, 1886 - L; True, 1903
L; Gibbs, 1909 - L; Stockberger, 1915 - L;
Holmes, 1881 - XF; Umney, 1912 - R; Evans,
1912 - R; Holmes, 1912 - R; Greenish, 1912 -
R; Allen, 1912 - R; Barrett, 1912 - R; Coop-
er, 1913 - R; Wasicky, 1913 - R; _____,
1914 - R; Bergtheil, 1917 - R; Holmes,
1917 - R; Umney, 1917 - R; Saunders, 1870 -
H; _____, 1908 - H.

Cascara sagrada. Rusby, 1890 - H.

Cassia acutifolia. _____, 1918 - H.

Cassia marilandica. Vasey, 1885 - L; Evans, 1859 - H.

- Cassia senna. Brown, 1855 - L; Hanbury, 1876 - L.
- Castilleja elastic. Guibourt, 1866 - H.
- Castilleja species. Cook, 1903 - L.
- Cataria. True, 1912 - R; Editor, 1915 - R.
- Caulophyllum thalictroides. Henkel, 1907 - F.
- Celastrus scandens. Henkel, 1900 - F.
- Centaurium. Ellis, 1917 - H.
- Cephaelis. Evans, 1912 - R; _____, 1912 - R; Coffee
Planter, 1912 - R; Hooper, 1913 - R; _____,
1914 - R;
- Cephaelis Ipecacuanha. Hanbury, 1876 - L; Riffin, 1903 -
L; -Willis, 1909 - L; Wilcox, 1916 -
L; _____, 1917 - H; _____. 1918 -
H.
- Cephalanthus occidentalis. Henkel, 1909 - F.
- Cerasus Serotina. Evans, 1859 - H.
- Cetraria Islandica. Brown, 1855 - L.
- Chamaelirium luteum. Henkel, 1907 - F; Maisch, 1889 - H.
- Cheiranthus cheiri. Petzold-Suz, 1897 - L.
- Chelidonium majus. Holmes, 1900 - XF.
- Chenopodium ambrosoides. Petzold-Suz, 1897 - L; True,
1909 - L; Stockberger, 1915 - L;
Henkel, 1904 - F; Henkel, 1913 -
F; Wulling, 1917 - R.
- Chenopodium Anthelminticum. Evans, 1859 - H; _____.
1908 - H.

- Chenopodium Californicum*. Blochman, 1894 - H.
- Chenopodium olidum*. Holmes, 1900 - XF.
- Chimaphila umbellata*. Castle, 1886 - L.
- Chinese wood oil. Wilcox, 1904 - L.
- Chionanthus virginica*. Henkel, 1909 - F.
- Chlorogalum pomeridianum*. Blochman, 1894 - H.
- Chrysanthemum*. Stedler, 1913 - R; Wasicky, 1913 - R;
Xrayser II, 1920 - H.
- Chrysanthemum Parthenium*. Whatmough, 1914 - L; Holmes,
1900 - XF; Ellis, 1917 - H.
- Chrysanthemum roseum*. Stockberger, 1915 - L.
- Cicuta maculata*. Vasey, 1884 - L.
- Cimicifuga*. Bruder, 1914 - XF.
- Cimicifuga racemosa*. Vasey, 1884 - L; Henkel, 1909 - F.
- Cinchona*. Siegfried, 1912 - R; DeVry, 1861 - H; Markham,
1863 - H; DeVry, 1864 - H; _____, 1918 - H;
_____, 1920 - H.
- Cinchona calisaya*. Buckalew, 1859 - L; Antisell, 1866 -
L; Capron, 1868 - L; Saunders, 1870 -
L; Vasey, 1872 - L; Hanbury, 1876 - L;
_____, 1877 - L; _____, 1880 - L;
Crain, 1880 - L; Adams, 1881 - L;
Vasey, 1885 - L; Saunders, 1889 - L;
Saunders, 1891 - L; Tschirch, 1891 -
L; Saunders, 1897 - L; Everett, 1899
L; Semler, 1900 - L; Cook, 1901 - L;
_____, 1903 - L; Wilcox, 1916 - L.

Cinchona species. Gibbs, 1884 - L; _____, 1887 - L.

Cinnamomum. Siegfried, 1912 - R; _____, 1913 - R;

Directors' Annual Report, 1889 - H.

Cinnamum camphora. Goldsborough, 1882 - L; Saunders,
1887 - L; Saunders, 1889 - L; Dewey,
1897 - L; Saunders, 1897 - L; David-
son, 1900 - L; Cook, 1901 - L; _____,
1903 - L; _____, 1906 - L; Michael,
1911 - L; Baker, 1914 - L; Siegfried,
1912 - R; True, 1912 - R; _____,
1913 - R; _____, 1914 - R; _____,
1917 - R; _____, 1908 - H.

Cinnamomum species. Simmonds, 1871 - L; Simmonds, 1877 - L;
Jones, 1881 - L; Semler, 1900 - L;
Gibbs, 1909 - L; Willis, 1909 - L;
Williams, 1911 - L; Ridley, 1912 - L;
Stockberger, 1915 - L; _____, 1908 - H.

Cinnamomum cassia. Simmonds, 1871 - L; Simmonds, 1877 - L;
Baker, 1915 - L; Wilcox, 1916 - L.

Citrullus Colocynthis. Castle, 1886 - L; Tschirch, 1891 -
L; Wallace, 1895 - L; Semler, 1900 -
L; _____, 1918 - H.

Citrus. Umney, 1912 - R; Evans, 1912 - R; Holmes, 1912 -
R; Greenish, 1912 - R; Allen, 1912 -
R; Barrett, 1912 - R; Cooper, 1913 -
R; Bush, 1914 - R.

- Citrus aurantium* v. *Bergamia*. Mason, 1886 - L; Rabak, 1910 - L; Umney, 1912 - R; Evans, 1912, R; Holmes, 1912 - R; Greenish, 1912 - R; Allen, 1912 - R; Barrett, 1912 - R.
- Citrus medica*. _____, 1886 - L.
- Citrus species*. Semler, 1900 - L.
- Claviceps purpurea*. Williams, 1893 - L; Chestnut, 1901 - L
- Cnicus benedictus*. Henkel, 1904 - F; _____, 1917 - H.
- Cocculus indicus*. Tschirch, 1891 - L.
- Cochlearia armoracis*. Holmes, 1905 - XF; _____, 1908 - H.
- Cochlearia officinalis*. Petzold-Suz, 1897 - L.
- Coffea arabica*. _____, 1877 - L; Studer, 1882 - L; Tschirch, 1891 - L; Semler, 1897 - L; Butman, 1907 - L; Willis, 1909 - L.
- Coix Lacryma*. Wulling, 1915 - R.
- Cola acuminata*. Schuhardt, 1891 - L; Stewart, 1894 - L; Willis, 1909 - L; Directors' Annual Report, 1889 - H.
- Colchicum autumnale*. Saunders, 1882 - XF; Holmes, 1905 - XF; _____, 1910 - XF; Evans, 1912 - R; Hooper, 1913 - R; Ellis, 1917 - H; _____, 1917 - H; Tocher, 1917 - H; _____, 1918 - H; _____, 1908 - H; Guyer, 1921 - H.

- Collinsonia canadensis*. Willis, 1909 - L.
- Commiphora Balsamodendron*. Brown, 1855 - L.
- Conium maculatum*. Chestnut, 1896 - L; Georgian, 1914 - L;
Stockberger, 1915 - L; Holmes, 1900 -
XF; Holmes, 1905 - XF; _____, 1910 - XF;
_____, 1915 - XF; Henkel, 1904 - F;
Henkel, 1913 - F; _____, 1914 - R;
Wulling, 1915 - R; Ellis, 1917 - H;
_____, 1908 - H; Guyer, 1921 - H.
- Convallaria majalis*. Greene, 1892 - L; Editor, 1915 - R.
- Copaiba Balsam*. Wilcox, 1916 - L.
- Copal Gum*. Studer, 1882 - L.
- Coptis chinensis*. Baker, 1915 - L.
- Corallorhiza adontorhiza*. Henkel, 1907 - F.
- Coriandrum sativum*. Brown, 1854 - L; True, 1903 - L;
Whatmough, 1914 - L; Clute, 1914 - L;
Stockberger, 1915 - L; Wilcox, 1916 -
L; Saunders, 1882 - XF; Umney, 1912 -
R; Evans, 1912 - R; Holmes, 1912 - R;
Greenish, 1912 - R; Allen, 1912 - R;
Barrett, 1912 - R; Cooper, 1913 - R;
Wasicky, 1913 - R; _____, 1914 - R;
Bergtheil, 1917 - R; Johnson, 1917 -
R; Saunders, 1870 - H.
- Cornus florida*. Henkel, 1909 - F; Evans, 1859 - H.
- Crocus*. Wasicky, 1913 - R; _____, 1913 - R; Augustin,
1914 - R.

- Crocus sativus*. Simmond, 1877 - L; Petzold-Suz, 1897 - L;
Semler, 1900 - L; Lemberger, 1905 - L;
Stockberger, 1915 - L; Heinitsch, 1866 -
XF; _____, 1908 - H.
- Croton californicus*. Blochman, 1894 - H.
- Croton tiglium*. Simmonds, 1871 - L; Semler, 1900 - L.
- Cucurbita foetidissima*. Blochman, 1894 - H.
- Cuminum Cyminum*. Wilcox, 1916 - L; Cooper, 1913 - R;
Shenstone, 1917 - R.
- Curcuma longa*. Simmonds, 1871 - L; _____, 1877 - L;
Semler, 1900 - L; Wilcox, 1916 - L.
- Cypripedium hirsutum*. Henkel, 1907 - F.
- Cypripidium parviflorum*. Henkel, 1907 - F.
- Cystisus scoparius*. Holmes, 1905 - XF; Carr, 1908 - XF;
_____, 1915 - XF; _____, 1908 - H;
Guyer, 1921 - H.
- Daemonorops draco*. Studer, 1887- L.
- Daphne laureola*. Holmes, 1905 - XF.
- Daphne mezzerion*. Holmes, 1905 - XF; _____, 1908 - H.
- Datura*. Miller, 1913 - XF; Miller, 1914 - XF; _____,
1915 - XF; Miller, 1912 - R; Meader, 1912 - R;
True, 1912 - R; Cooper, 1913 - R;
- Datura arborea*. Carr, 1908 - XF.
- Datura ferox*. Miller, 1913 - L.
- Datura humilis flava*. Miller, 1913 - L.
- Datura metel*. Georgian, 1914 - L; Whatmough, 1914 - L;
_____, 1910 - XF.

Datura Stramonium. Castle, 1886 - L; Harvey, 1891 - L;
True, 1903 - L; Miller, 1913 - L;
Miller, 1914 - L; Whatmough, 1914 - L;
Stockberger, 1915 - L; Blakeslie-Avery
1917 - L; True, 1902 - XF; Henkel,
1904 - F; Henkel, 1913 - F; Newcomb,
1916 - H; Lybing, 1917 - H; _____,
1908 - H; Guyer, 1921 - H; Woodworth,
1919 - H.

Datura Tatula. Miller, 1913 - L; Holmes, 1900 - XF;
Holmes, 1905 - XF; Henkel, 1904 - F.

Daucus pusillus. Blochman, 1893 - H.

Delphinium ajacis. Corbett, 1904 - L.

Delphinium bicolor. Chestnut, 1901 - L.

Delphinium staphisagria. Castle, 1886 - L; Stockberger,
1915 - L; Newcomb, 1916 - H.

Demerara Australis. Griffin, 1881 - L.

Devisticum. Wulling, 1915 - R.

Digitalis. Evans, 1912 - R; Miller, 1912 - R; Baker, 1912
R; Newcomb, 1912 - R; True, 1912 - R; Carr,
1913 - R; Hooper, 1913 - R; Lloyd, 1913 - R;
Baker, 1914 - R; _____, 1914 - R; Wulling,
1915 - R; Holmes, 1916 - R; Holmes, 1917 - R;
Schneider, 1917 - R; _____, 1917 (3) - R;
_____, 1917 - H.

Digitalis purpurea. Withering, 1765 - L; Petzold-Suz,
1897 - L; Corbett, 1904 - L; Hood,
1907 - L; Hale, 1910 - L; Borneman,

1912 - L; Miller, 1912 - L; Allen,
1913- L; Miller, 1914 - L; What-
mough, 1914 - L; Stockberger, 1915 -
L; Saunders, 1882 - XF; Holmes,
1899- XF; Holmes, 1900 - XF; True,
1902 - XF; Holmes, 1905 - XF; _____,
1910 - XF; Miller, 1913 - XF; Kil-
mer, 1915 - XF; _____, 1915 - XF;
Henkel, 1904 - F; Saunders, 1870 -
H; Newcomb, 1916 - H; _____, 1917 -
H; Lybing, 1917 - H; _____, 1918 -
H; Farwell, 1918 - H; Koch, 1919 -
H; _____, 1908 - H; Guyer, 1921 - H.

Digitalis species. Miller, 1913 - L.

Dioscorea villosa. Henkel, 1907 - F.

Dipterocarpus. Tschirch, 1897 - L.

Dipteryx odorata. Saunders, 1887 - L.

Dirca palustris. Henkel, 1909 - F.

Dog grass. Schneider, 1917 - R.

Dorstenia contrayerva. Guibourt, 1866 - H.

Dracontium. Bruder, 1914 - XF.

Dracontium foetidum. Henkel, 1907 - F.

Drug Cultivation in Russia. Koulitchitzkii, 1918 - H.

Drug Culture. _____, 1918 - H.

Drug Culture in Germany. _____, 1918 - H.

Drug Cultivation in India. _____, 1920 - H.

- Drug Farming. _____, 1918 - H.
- Drug-Growing. Fuller, 1918 - H.
- Dryobalanops camphora. Baker, 1914 - L.
- Dryopteris felix-mas. Henkel, 1907 - F.
- Ecballium Elaterium. Castle, 1886 - L; _____, 1874 - XF;
Holmes, 1887 - XF; Holmes, 1900 - XF;
_____, 1908 - H.
- Echinacea. Bruder, 1915 - XF.
- Echinaceae augustifolia. Lloyd, 1904 - H; Newcomb, 1916 -
H.
- Eleteria cardamomum. Gibbs, 1909 - L; Willis, 1909 - L;
Ridley, 1912 - L; Baker, 1913 - L;
Wilcox, 1916 - L; E.E., 1912 - R.
- Ephedra californica. Blochman, 1894 - H.
- Erigeron canadense. Rabak, 1910 - L; Henkel, 1904 - F.
- Eriodictyon glutinosum. Vasey, 1885 - L.
- Erythrene centaurium. Petzold-Suz, 1897 - L.
- Erythroxylen Coca. Brent, 1885 - L; Gibbs, 1885 - L;
Merriam, 1885 - L; Saunders, 1889 - L;
Martindale, 1892 - L; Saunders, 1897 -
L; Cook, 1901 - L; Mortimer, 1901 - L;
Botman, 1907 - L; Lloyd, 1913 - L;
Wilcox, 1916 - L; _____, 1918 - H.
- Eucalyptus. Cooper, 1913 - R; Bush, 1914 - R; Editor,
1915 - R.
- Eucalyptus globulus. _____, 1877 - L; _____, 1880 - L;

Wilson, 1881 - L; Wiley, 1894 - L;
Saunders, 1897 - L; Peck, 1909 - L;
Hanna, 1910 - L; Rabak, 1910 - L.

Eucalyptus species. Baker, 1882 - L; _____, 1906 - L;
_____, 1909 - L.

Eugenia aromatica. Simmonds, 1877 - L; Studer, 1882 - L;
Gibbs, 1909 - L; Willis, 1909 - L;
Ridley, 1912 - L; Ridley, 1912 - L;
Wilcox, 1916 - L; Umney, 1912 - R;
Evans, 1912 - R; Holmes, 1912 - R;
Greenish, 1912 - R; Allen, 1912 - R;
Barrett, 1912 - R; Craster, 1913 - R;
Shenstone, 1917 - R.

Eugenia pimento. Ledet, 1884 - L.

Euonymus Americanus. Evans, 1859 - H.

Euonymus atropurpurea. Greene, 1892 - L; Henkel, 1909 - F.

Eupatorium perfoliatum. Stockberger, 1915 - L; Henkel,
1904 - F; Evans, 1859 - H.

Eupatorium purpureum. Henkel, 1907 - F.

Euphorbia Ipecacuanha. Vasey, 1885 - L.

Exogonium purga. Hanbury, 1876 - L; Willis, 1909 - L;
Miller, 1914 - L; Wilcox, 1916 - L;
Ellacomb, 1875 - H.

Foeniculum capillaceum. Holmes, 1905 - XF; Guyer, 1921 - H.

Foeniculum vulgare. Castle, 1886 - L; Whatmough, 1914 - L;
Stockberger, 1915 - L; Umney, 1912 -
R; Evans, 1912 - R; Holmes, 1912 - R;

Greenish, 1912 - R; Allen, 1912 - R;
Barrett, 1912 - R; Cooper, 1913 - R;
_____, 1914 - R; Wasicky, 1913 - R;
Bergtheil, 1917 - R; Johnson, 1917 - R;
Schneider, 1917 - R.

Ferula Asofoetida. Browne, 1855 - L.

Frasera carolinensis. Hanbury, 1876 - L; Vasey, 1884 - L;
_____, Henkel, 1907 - F.

Fraxinus americana. Henkel, 1909 - F.

Garcinia Hanburii. Wilcox, 1916 - L.

Gaultheria procumbens. Rabak, 1910 - L; Stockberger,
1915 - L; Umney, 1916 - R; Shen-
stone, 1917 - R.

Gelsemium. Bruder, 1915 - XF.

Gelsemium sempervirens. Henkel, 1907 - F; _____, 1912 - R.

General. _____, 1917 - H.

General. _____, 1917 - H.

General. _____, 1917 - H.

General. _____, 1917 - H.

General. _____, 1908 - H.

General. _____, 1917 - H.

General. Arny, 1916 - H.

General. Brown, 1881 - H.

General. Committee, 1917 - H.

General. Corbett, 1904 - H.

General. Bennett, 1918 - H.

General. Crawford, 1893 - H.

- General. Cushman, 1918 - H.
- General. Eccles, 1888 - H.
- General. Fuller, 1918 - H.
- General. Johnson, 1916 - H.
- General. Kilmer, 1900 - H.
- General. Kraemer, 1902 - H.
- General. Nat. Herb Federation, 1917 - H.
- General. Saunders, 1882 - H.
- General. Schneider, 1904 - H.
- General. Senft, 1917 - H.
- General. Shenstone, 1917 - H.
- General. Stockberger, 1916 - H.
- General. Stockberger, 1918 - H.
- General. Stockberger, 1916 - H.
- General. Timbal-Lagrange, M., 1862 - H.
- General. Tschirch, 1917 - H.
- General. Wren, 1917 - H.
- General. Xrayser II, 1918 - H.
- General. Youngken, 1916 - H.
- General. Zornig, 1916 - H.
- Gentiana lutea*. Stockberger, 1915 - L; Saunders, 1882 -
XF; Schneider, 1917 - R.
- Geranium maculatum*. Mason, 1886 - L; Henkel, 1907 - F;
Umney, 1912 - R; Evans, 1912 - R;
Holmes, 1912 - R; Greenish, 1912 - R;
Allen, 1912 - R; Barrett, 1912 - R;
Cooper, 1914 - R.

- Gillenia stipulacea*. Evans, 1859 - H.
- Gillenia trifoliata*. Vasey, 1885 - L; Henkel, 1907 - F.
- Glaucium leutum*. _____, 1910 - XF.
- Glycyrrhiza glabra*. Browne, 1854 - L; Browne, 1855 - L;
Marston, 1881 - L; Vasey, 1885 - L;
Christy, 1886 - L; Petzold-Suz,
1897 - L; True, 1903 - L; Tschirch,
1912 - L; Stockberger, 1915 - L;
_____, 1874 - XF; Saunders, 1882 -
XF; Rittenhouse, 1895 - XF; True,
1912 - R; Wasicky, 1913 - R;
Schneider, 1917 - R; _____, 1908 -
H; Guyer, 1921 - H.
- Glycyrrhiza lepidota*. Chestnut, 1901 - L.
- Gold of Pleasure. Simmond, 1897 - L.
- Gossypium herbaceum*. Simmonds, 1877 - L; Semler, 1900 - L;
True, 1907 - L; _____, 1912 - L.
- Gossypium hirsutum*. Henkel, 1909 - F.
- Grindelia robusta*. Vasey, 1885 - L; _____, 1910 - XF;
Henkel, 1904 - F; Steele, 1875 - H.
- Grindelia squarrosa*. Crandall, 1893 - L; Henkel, 1904 - F.
- Gum damar. Studer, 1882 - L.
- Hamamelis virginiana*. Vasey, 1885 - L; Henkel, 1909 - F.
- Hedeoma pulegeoides*. Hood, 1907 - L; Allen, 1913 - L;
Holmes, 1910 - XF.
- Heleniastrum puberulum*. Blochman, 1894 - H.
- Helenium autumnale*. Guibourt, 1866 - H; Maisch, 1872 - H.

- Helenium tenuifolium*. Maisch, 1872 - H.
- Helleborus niger*. Castle, 1886 - L.
- Heliantherum canadense*. Evans, 1859 - H.
- Heliocarpus copallifera*. Guibourt, 1866 - H.
- Helianthus annuus*. Simmonds, 1871 - L; Simmonds, 1877 - L;
Green, 1892 - L; Daugherty, 1903 - L;
Ten Eyck, 1907 - L; Grout, 1910 - L;
Stewart, 1910 - L.
- Herb-Growing. _____, 1918 - H.
- Hevea*. Kibble, 1912 - R; Seigfried, 1912 - R.
- Hevea species*. Studer, 1882 - L; Christy, 1884 - L;
Tschirch, 1891 - L; Gardini, 1896 - L;
_____, 1898 - L; Cook, 1901 - L; Sorsby,
1901 - L; Morrise, 1902 - L; Semler, 1906 -
L; _____, 1907 - L; Ridley-Hart, 1907 - L;
Earle, 1908 - L; Wilson, 1909 - L; Willis,
1909 - L; Clute, 1916 - L.
- Historical. Holmes, 1906 - L; Tschirch, 1910 - L.
- Hordeum distichon*. Holmes, 1905 - XF.
- Humulus lupulus*. _____, 1844 - L; Potter, 1853 - L; Rouse,
1853 - L; Browne, 1854 - L; Marshall,
1861 - L; Ballman, 1864 - L; Worthing-
ton, 1878 - L; Fairchild, 1900 - L;
Flint, 1900 - L; Howard, 1905 - L;
Stockberger, 1907 - L; Stockberger, 1910
L; Stockberger, 1913 - L; Rabak, 1914 -
L; Ramsey, 1875 - XF; Wulling, 1915 - R.

Hydrangea arborescens. Henkel, 1907 - F; Evans, 1859 - H.

Hydrastis canadensis. Vasey, 1884 - L; Castle, 1886 - L; Lloyd, 1886 - L; True, 1903 - L; Henkel-Klugh, 1908 - L; Lloyd, 1908 L; Borneman, 1912 - L; Allen, 1913 L; Whatmough, 1914 - L; Stockberger, 1915 - L; _____, 1910 - XF; Lloyd, 1912 - XF; Stingel, 1912 - XF; Bruder, 1914 - XF; Kilmer, 1915 - XF; Henkel, 1907 - F; (Henkel-Klugh, 1908 - F); Van Fleet, 1914 - F; Evans, 1912 - R; True, 1912 (2) - R; Baldwin, 1913 - R; Wasicky, 1913 - R; _____, 1914 - R; Welch, 1915 - R; Johnson, 1917 - R; Schneider, 1917 - R; Sayre, 1916 - H; Farwell, 1918 - H; _____, 1908 - H.

Hymenodictyon excelsum. Broughton, 1868 - H.

Hyoscyamus muticus. Miller, 1918 - H.

Hyoscyamus niger. Castle, 1886 - L; True, 1903 - L; Allen, 1913 - L; Miller, 1913 - L; Georgian, 1914 - L; Miller, 1914 - L; Whatmough, 1914 - L; Farwell, 1915 - L; Stockberger, 1915 - L; Holmes, 1881 - XF; Saunders, 1882 - XF; Rittenhouse, 1895 - XF; Gordon, 1900 - XF; Ransom, 1902 - XF;

True, 1902 - XF; Borneman, 1912 - XF;
Miller, 1912 - XF; Kilmer, 1915 - XF;
_____, 1915 - XF; Evans, 1912 - R;
True, 1912 - R; Carr, 1913 - R; Cooper,
1913 - R; Hooper, 1913 - R; Newcomb,
1914 - R; _____, 1914 - R; Umney, 1915 -
R; Newcomb, 1916 - R; _____, 1917 (2)
R; Newcomb & Haynes, 1916 - H; _____,
1917 - H; Ellis, 1917 - H; _____, 1917
H; _____, 1917 - H; Lybing, 1917 - H;
_____, 1918 - H; Farwell, 1918 - H;
Miller, 1918 - H; Mueller, 1918 - H;
Koch, 1919 - H; _____, 1908 - H; Guyer,
1921 - H.

Hypericum Corymbosum. Evans, 1859 - H.

Hyssopus officinalis. Saunders, 1902 - XF; Holmes, 1900 -
XF; Editor, 1915 - R.

Ilex vertifillata. Henkel, 1909 - F.

Indigofera species. _____, 1854 - L; Simmonds, 1871 - L;
Simmond, 1877 - L; Saunders, 1887 - L;
Baker, 1886 - L; Semler, 1900 - L;
Michael, 1908 - L; Wilcox, 1916 - L.

Inula helenium. Henkel, 1907 - F; _____, 1914 - R; Wull-
ing, 1915 - R; Newcomb, 1916 - H.

Ipomoea. Hooper, 1913 - R.

Iris. Buhner, 1912 - R; Umney, 1913 - R; Shenstone, 1917
R; _____, 1917 - R.

- Iris versicolor*. Henkel, 1907 - F.
- Jasminum*. _____, 1912 - R.
- Jeffersonia diphylla*. Henkel, 1907 - F.
- Jonquil*. Mason, 1886 - L.
- Juglans cinerea*. Henkel, 1909 - F.
- Juniperus communis*. Holmes, 1905 - XF; Henkel, 1913 - F;
Shenstone, 1917 - R; Guyer, 1921 - H.
- Juniperus sabinæ*. Allen, 1913 - L; Holmes, 1881 - XF;
Holmes, 1900 - XF; Holmes, 1905 - XF;
_____, 1917 - R; _____, 1908 - H.
- Juniperus virginiana*. _____, 1890 - L; Green, 1892 - L.
- Kalmia latifolia*. Kennedy, -1875 - H.
- Kauri gum*. Griffin, 1881 - L.
- Kava kava*. Wilcox, 1916 - L.
- Krameria triandra*. Browne, 1855 - L.
- Lactuca sativa*. _____, 1908 - H.
- Lactuca virosa*. Petzold-Suz, 1897 - L; Saunders, 1882 -
XF; Holmes, 1900 - XF; Ransom, 1912 - XF;
_____, 1908 - H.
- Larix europea*. _____, 1870 - L.
- Larix laricina*. Henkel, 1900 - F.
- Laurus nobilis*. Ledet, 1884 - L.
- Lavendula*. Umney, 1912 - R; Evans, 1912 - R; Holmes,
1912 - R; Greenish, 1912 - R; Allen, 1912 - R;
Barrett, 1912 - R; Editor, 1915 - R; Augier,
1917 - R; Bergtheil, 1917 - R; Shenstone,
1917 - R; Umney, 1917 - R.

- Lavandula officinalis*. Petzold-Suz, 1897 - L; _____,
1874 - XF; Holmes, 1900 - XF;
_____, 1910 - XF.
- Lavandula spica*. Browne, 1854 - L; Mason, 1886 - L;
Mason, 1889 - L; Allen, 1913 - L;
Dawson, 1913 - L; Stockberger, 1915 - L.
- Lavendula vera*. Holmes, 1905 - XF; _____, 1908 - H.
- Lawsonia inermis*. Simmonds, 1871 - L; Semler, 1900 - L;
Wilcox, 1916 - L.
- Levisticum*. Bruder, 1914 - XF; Wulling, 1915 - R.
- Levisticum officinalis*. Petzold-Suz, 1897 - L; Stockberg-
er, 1915 - L.
- Liatris odoratissima*. Miller, 1875 - H.
- Linum usitatissimum*. Simmond, 1877 - L; Wolf, 1882 - L;
Lugger, 1890 - L; Reid, 1893 - L;
Reque, 1894 - L; Daugherty, 1902 -
L; True, 1907 - L; Stewart, 1910 -
L; Bolley, Wilson, 1914 - L; Bolley,
1915 - L; Rabak, 1918 - L; Dodge,
1895 - F; Hill, 1918 - H.
- Liptilon canadensis*. Henkel, 1904 - F.
- Liquidamber orientalis*. Shenstone, 1917.
- Liquidambar styraciflua*. Proctor, 1864 - H.
- Liriodendron tulipifera*. Henkel, 1909 - F.
- Lobelia inflata*. Vasey, 1884 - L; Petzold-Suz, 1897 - L;
Corbett, 1904 - L; Hood, 1909 - L;
Georgian, 1914 - L; Stockberger,

1915 - L; Saunders, 1882 - XF; Henkel,
1904 - F; True, 1912 - R; _____, 1917 -
R; _____, 1908 - H.

Lycopodium clavatum. Maisch, 1869 - H.

Magnolia acuminata. Henkel, 1909 - F.

Magnolia glauca. Henkel, 1909 - F.

Magnolia tripetala. Henkel, 1909 - F.

Majorana hortensis. Browne, 1854.

Mallotus philippinensis. Tschirch, 1891 - L.

Malva officinalis. Diffloth, 1901.

Malva parviflora. Blochman, 1894 - H.

Malva sylvestris. Petzold-Suz, 1897 - L.

Malva vulgaris. Petzold-Suz, 1897 - L.

Mangabeiba rubber tree. Wright, 1885 - L.

Manihot utilitissima. Tschirch, 1912 - L.

Maranta arundinaceae. Clute, 1914 - L.

Marrubium vulgare. Browne, 1854 - L; Stockberger, 1915 -
L; Saunders, 1882 - XF; Henkel, 1904 -
F; _____, 1914 - R; Umney, 1915 - R;
Wulling, 1915 - R; _____, 1917 - R;
_____, 1908 - H.

Matricaria chamomila. Baker, 1886 - L; Petzold-Suz,
1897 - L; Whatmough, 1914 - L; Stock-
berger, 1915 - L; _____, 1874 - XF;
Holmes, 1905 - XF; Wasicky, 1913 - R;
A Drug Grower, 1917 - R; Johnson,
1917 - R; Schneider, 1917 - R;

Ellis, 1917 - H; A Drug Grower, 1917 -
H.

Megarrhiza californica. Heany, 1876 - H.

Melaleuca leucadendron. Tschirch, 1891 - L; Umney, 1912 -
R; Evans, 1912 - R; Holmes, 1912
R; Greenish, 1912 - R; Allen,
1912 - R; Barrett, 1912 - R;
Cooper, 1913 - R.

Melilotus officinalis. Petzold-Suz, 1897 - L.

Melissa officinalis. Petzold-Suz, 1897 - L; Stockberger,
1915 - L; Holmes, 1900 - XF.

Menispermum canadensis. Henkel, 1907 - F.

Mentha. Editor, 1915 - R; Shenstone, 1917 - R.

Mentha arvensis. Castle, 1886 - L.

Mentha citriodora. Tschirch, 1891 - L; Willis, 1909 - L.

Mentha crispa. Petzold-Suz, 1897 - L.

Mentha piperita. Van Pyck, 1849 - L; Browne, 1854 - L;
Christy, 1884 - L; Vasey, 1887 - L;
Kedzie, 1893 - L; Petzold-Suz, 1897 -
L; Henkel, 1905 - L; Rabak, 1910 - L;
Allen, 1913 - L; Van Fleet, 1915 - L;
Stockberger, 1915 - L; Wilcox, 1916 - L;
Stearns, 1859 - XF; _____, 1874 - XF;
Holmes, 1881 - XF; Holmes, 1900 - XF;
Todd, 1903 - XF; Holmes, 1905 - XF;
_____, 1910 - XF; _____, 1914 - XF;
Umney, 1912 - R; Evans, 1912 - R;

Holmes, 1912 - R; Greenish, 1912 - R;
Allen, 1912 - R; Barrett, 1912 - R;
Cooper, 1913 - R; Wasicky, 1913 - R;
_____, 1916 - R; Bergtheil, 1917 - R;
_____, 1917 - R; _____, 1908 - H.

Mentha pulegium. Holmes, 1905 - XF; _____, 1908 - H.

Mentha species. Sayre, 1915 - L.

Mentha viridis. True, 1907 - L; Rabak, 1910 - L; Stock-
berger, 1915 - L; Van Fleet, 1915 - L;
_____, 1916 - R; Bergtheil, 1917 - R;
_____, 1908 - H.

Menyanthes trifoliata. Petzold-Suz, 1897 - L; _____,
1908 - H.

Mignonette. Mason, 1886 - L.

Monarda. _____, 1915 - XF.

Monarda species. Rabak, 1910 - L.

Myrcia. _____, 1910-1911 - R.

Myrica cerifera. Ledet, 1884 - L; Henkel, 1909 - F.

Myristica fragrans. Simmonds, 1871 - L; Studer, 1882 - L;
Christy, 1884 - L; Ledet, 1884 - L;
Studer, 1887 - L; Tschirch, 1891 - L;
Semler, 1900 - L; Gibbs, 1909 - L;
Willis, 1909 - L; Ridley, 1912 - L;
Wilcox, 1916 - L; Directors' Annual
Report, 1889 - H.

Myroxylon pereirae. Tschirch, 1891 - L; Wilcox, 1916 - L.

Myroxylon toliuferum. Wilcox, 1916 - L.

- Myrtles (Amer.) Maisch, 1882 - H.
- Myrtus simenta. Ledet, 1884 - L.
- Nepeta cataria. Hood, 1907 - L; Stockberger, 1915 - L;
Henkel, 1904 - F.
- Ngai. Hanbury, 1875 - H.
- Nicotiana tabacum. Simmonds, 1871 - L; Butman, 1907 - L;
True, 1912 - R; _____, 1914 - R.
- Nigerian kola. _____, 1920 - H.
- Oenanthe crocata. Holmes, 1905 - XF.
- Oleo europa. Thomas, 1858 - L; Simmonds, 1871 - L; Crain,
1884 - L; Barnard, 1885 - L; Semler, 1900 -
L; Cook, 1901 - L; True, 1907 - L; Tschirch,
1912 - L; Bioletti-Oglesby, 1916 - L;
Pierce, 1896 - H.
- Oreodaphne Californica. Heany, 1875 - H.
- Origanum. _____, 1914 - R; Cooper, 1914 - R.
- Origanum majorana. Mason, 1889 - L; Gibbs, 1909 - L;
Holmes, 1900 - XF.
- Ostrya virginiana. Henkel, 1909 - F.
- Ourouparia gambir. Studer, 1882 - L; Semler, 1900 - L.
- Paenia officinalis. Petzold-Suz, 1897 - L.
- Palaquin gutta. Tschirch, 1891 - L; Willis, 1909 - L.
- Panax quinquefolium. _____, 1877 - L; _____, 1880 - L;
Bandinell, 1884 - L; Bergholz, 1884 -
L; Cheshire, 1884 - L; Goldsborough,
1884 - L; Moore, 1884 - L; Platt,
1884 - L; Seymour, 1884 - L; Shepard,

1884 - L; Stevens, 1884 - L; Wingate,
1884 - L; Vasey, 1884 - L; Foulk,
1886 - L; Saunders, 1887 - L; Nash,
1895 - L; Allen, 1904 - L; Miller,
1904 - L; Holmes, 1906 - L; Hart, 1907
L; Scidmore, 1912 - L; Van Fleet, 1913
L; Stockberger, 1915 - L; Bruder, 1914
XF; _____, 1910 - XF; Henkel, 1907 -
F; Whetzel, 1912 - F; Evans, 1912 - R;
True, 1913 - R; _____, 1914 - R; Welch,
1915 - R; Johnson, 1917 - R; Trimble,
1894 - H.

Papaver. True, 1912 - R; Wasicky, 1913 - R; Thoms, 1917 -
R.

Papaver argemone. Holmes, 1905 - XF.

Papaver dubium. Holmes, 1905 - XF.

Papaver hybridum. Holmes, 1905 - XF.

Papaver Rhoëas. Petzold-Suz, 1897 - L; Holmes, 1905 - XF;
_____, 1908 - H; Guyer, 1921 - H.

Papaver Somniferum. Browne, 1855 - L; _____, 1869 - L;
Patton, 1875 - L; Smithers, 1881 - L;
Seymour, 1883 - L; Benjamin, 1884 -
L; Stevens, 1885 - L; Vasey, 1885 -
L; Pratt, 1887 - L; Saunders, 1887 -
L; Semler, 1892 - L; McDonald, 1896
- L; Petzold-Suz, 1897 - L; Daugherty,
1903 - L; True, 1903 - L; _____.

1904 - L; Corbett, 1904 - L; Hood,
1907 - L; Lloyd, 1908 - L; Willis,
1909 - L; Stewart, 1910 - L; Tschirch,
1912 - L; Wood, 1912 - L; Wood, 1912 -
L; Murphy, 1916 - L; Wilcox, 1916 - L;
Graham, 1866 - XF; _____, 1874 - XF;
Holmes, 1900 - XF; True, 1902 - XF;
Holmes, 1905 - XF; Graham, 1867 - H;
True, 1903 - F; Ellis, 1917 - H; _____,
1918 - H; Lybing, 1917 - H; Tschirch,
1918 - H; _____, 1908 - H.

Parma violet. Piatti, 1903 - L.

Paullinia cupana. Simmonds, 1877 - L; Tschirch, 1891 - L;
Semler, 1897 - L.

Perezia microcephala. Blochman, 1893 - H.

Persica punctatum. Evans, 1859 - H.

Petroselinum sativum. Gibbs, 1909 - L; Stockberger, 1915 -
L.

Peucedanum graveolens. _____, 1908 - H.

Phagmites communis. Stewart, 1894 - L; Lloyd, 1897 - L.

Phleum pratense. Guyer, 1921 - H.

Phytolacca americana. Henkel, 1904 - F; Henkel, 1913 - F.

Phytolacca decandra. Georgian, 1914 - L; Stockberger,
1915 - L; Wilcox, 1916 - L; Saunders,
1882 - XF; Henkel, 1904 - F; Henkel,
1907 - F; _____, 1908 - H.

Picea alba, excelsa, pungens. _____, 1890 - L.

- Pilocarpus jaborandi*. Ruffin, 1903 - L; Wilcox, 1916 - L;
Carr, 1908 - XF.
- Pilocarpus microphyllus*. Carr, 1908 - XF.
- Pimento officinalis*. Simmond, 1871 - L; Gibbs, 1877 - L;
Semler, 1900 - L; Butman, 1907 - L;
Gibbs, 1909 - L; Willis, 1909 - L;
Ridley, 1912 - L; Wilcox, 1916 - L.
- Pimpinella anisum*. Castle, 1886 - L; Whatmough, 1914 - L;
Stockberger, 1915 - L; True, 1903 - F;
Umney, 1912 - R; Evans, 1912 - R;
Holmes, 1912 - R; Greenish, 1912 - R;
Allen, 1912 - R; Barrett, 1912 - R;
Cooper, 1913 - R; Handel gesellschaft
Anis, 1913 - R; _____, 1914 - R; Berg-
theil, 1917 - R; Blin, 1917 - R;
Schneider, 1917 - R; Shenstone, 1917 -
R.
- Pinus austriaca, miles, montana, purgens, strobis*. _____,
1890 - L; Green, 1892 - L; Willis,
1909 - L.
- Pinus strobis*. Henkel, 1909 - F.
- Piper cubeba*. Tschirch, 1891 - L; Willis, 1909 - L;
Wilcox, 1916 - L.
- Piper lowong*. Umney, 1912 - R; Evans, 1912 - R; Holmes,
1912 - R; Greenish, 1912 - R; Allen, 1912 -
R; Barrett, 1912 - R.

- Piper longum*. Gibbs, 1909 - L; Ridley, 1912 - L; Wilcox, 1916 - L.
- Piper nigrum*. Simmonds, 1871 - L; Studer, 1882 - L; Christy, 1884 - L; Saunders, 1887 - L; Studer, 1887 - L; Tschirch, 1891 - L; Semler, 1900 - L; Fee, 1903 - L; Gibbs, 1909 - L; Willis, 1909 - L; Ridley, 1912 - L; Clute, 1914 - L; Wilcox, 1916 - L; Stockberger, 1917 - L.
- Pistacia lentiscus*. Browne, 1855 - L.
- Podophyllum peltatum*. Vasey, 1884 - L; Castle, 1886 - L; Holmes, 1906 - L; _____, 1910 - XF; Bruder, 1914 - XF; Henkel, 1907 - F; Evans, 1912 - R; Hooper, 1913 - R.
- Poenia californica*. Blochman, 1894 - H.
- Polygala senega*. Hood, 1907 - L; Stockberger, 1915 - L; Saunders, 1892 - XF; _____, 1910 - XF; Kilmer, 1915 - XF; Henkel, 1902 - F.
- Polystichum aculeatum*. Holmes, 1905 - XF.
- Polystichum lobatum*. Holmes, 1905 - XF.
- Populus tremuloides*. Henkel, 1909 - F.
- Porteranthus trifoliatus*. Henkel, 1907 - F.
- Prosopis juliflora*. Miller, 1875 - H.
- Prunus amygdalus*. True, 1907 - L; Taylor, 1918 - L.
- Prunus lauro-cerasus*. Holmes, 1905 - XF.
- Prunus serotina*. Green, 1892 - L; Georgian, 1914 - L; Henkel, 1909 - F; Bastin, 1895 - H.

- Prunus sylvestris*. Holmes, 1905 - XF.
- Prunus virginiana*. Green, 1892 - L; Nichols, 1917 - L;
Bastin, 1895 - H.
- Ptelea trifoliata*. Henkel, 1909 - F.
- Pterocarpus marsupium*. Hanbury, 1876 - L.
- Ptychotis coptica*. Christy, 1884 - L.
- Pyrethrum cinerariaefolium*. Christy, 1882 - L.
- Pyrethrum roseum*. Christy, 1882 - L; _____, 1884 - L.
- Quassia amara*. Browne, 1855 - L; Wilcox, 1916 - L.
- Quercus alba*. Green, 1892 - L; Henkel, 1909 - F.
- Quercus roba*. Holmes, 1905 - XF.
- Quercus rubra*. Green, 1892 - L.
- Rhamnus cathartica*. Greene, 1892 - L; _____, 1908 - H.
- Rhamnus purshiana*. Vasey, 1885 - L; Stockberger, 1915 - L;
Henkel, 1909 - F; Evans, 1912 - R;
True, 1912 - R; Bean, 1913 - R; Cooper,
1913 - R; Johnson, 1914 - R; Hindman,
1914 - R; _____, 1908 - H.
- Rhei*. Wasicky, 1913 - R.
- Rheum emodi*. Hlubek, 1848 - L.
- Rheum officinale*. Vasey, 1885 - L; Saunders, 1887 - L;
Wood, 1912 - L; Allen, 1913 - L; Wood,
1916 - L; Newcomb, 1916 - H.
- Rheum palmatum*. Browne, 1855 - L; Colard, 1884 - XF;
Holmes, 1900 - XF; Newcomb, 1916 - H.
- Rheum rhaponticum*. Newcomb, 1916 - H; _____, 1908 - H.

- Rhus glabra*. Marston, 1851 - L; Carroll, 1884 - L;
_____, 1896 - L; Semler, 1900 - L; Henkel,
1913 - F; Evans, 1859 - H.
- Rhus toxicodendron*. Georgian, 1914 - L.
- Ricinus communis*. Browne, 1855 - L; Simmonds, 1871 - L;
Simmonds, 1877 - L; Merrill, 1893 - L;
Semler, 1900 - L; Corbett, 1904 - L;
Daugherty, 1904 - L; True, 1907 - L;
Wilcox, 1907 - L; Willis, 1909 - L;
Ravndal, 1912 - L; White, 1918 - L;
Grosch, 1914 - R; Llewellyn, 1914 - R;
Lemberber, 1917 - R; _____, 1918 - H;
_____, 1908 - H.
- Rosa*. Umney, 1912 - R; Evans, 1912 - R; Holmes, 1912 - R;
Greenish, 1912 - R; Allen, 1912 - R; Barrett, 1912
R; Charabot, 1913 - R; Gatin, 1913 - R; Wasicky,
1913 - R; Bergtheil, 1917 - R; Shenstone, 1917 - R.
- Rosa canina*. Holmes, 1905 - XF.
- Rosa centifolia*. Petzold-Suz, 1897 - L; Guyer, 1921 - H.
- Rosa damascena*. _____, 1893 - H; Guyer, 1921 - H.
- Rosa gallica*. Heap, 1884 - L; Murphy, 1894 - L; Piatti,
1903 - L; Allen, 1913 - L; Holmes, 1900 -
XF; _____, 1908 - H; Guyer, 1921 - H.
- Rosmarinus officinalis*. Browne, 1854 - L; Mason, 1886 -
L; Allen, 1913 - L; Holmes, 1881
XF; Holmes, 1900 - XF; Holmes,
1905 - XF; Umney, 1912 - R;

Evans, 1912 - R; Holmes, 1912 - R;
Greenish, 1912 - R; Allen, 1912 -
R; Barrett, 1912 - R; Cooper,
1913 - R; Editor, 1915 - R; Umney,
1917 - R; _____, 1908 - H.

Rubia tinctorium. Gasparin, 1848 - L; Browne, 1855 - L;
Simmonds, 1877 - L; Wilcox, 1916 - L.

Rubus cuneifolius. Henkel, 1909 - F.

Rubus nigrobaccus. Henkel, 1909 - F.

Rubus occidentalis. Henkel, 1913 - F.

Rubus strigosus. Henkel, 1913 - F.

Rubus villosus. Henkel, 1909 - F.

Rue. _____, 1917 - R.

Rumex. Bruder, 1914 - XF; _____, 1908 - H.

Rumex britannica. Henkel, 1914 - F.

Rumex crispus. Hood, 1907 - L; Henkel, 1904 - F; Henkel,
1907 - F.

Rumex obtusifolius. Henkel, 1904 - F.

Ruta graveolens. Petzold-Suz, 1897 - L; Whatmough, 1914 -
L; Saunders, 1882 - XF; Holmes, 1900 -
XF; Holmes, 1905 - XF; Cooper, 1913 -
R; _____, 1908 - H.

Sabal serrulata. Sherrard, 1894 - H.

Saccharum officinarum. True, 1912 - R.

Salicylicum. Umney, 1916 - R.

Salix alba. Holmes, 1905 - XF; Henkel, 1909 - F.

Salvia hispanica. Guibourt, 1866 - H.

- Salvia officinalis*. Browne, 1854 - L; Henderson, 1865 - L; Petzold-Suz, 1897 - L; True, 1903 - L; Hood, 1907 - L; Skinner, 1910 - L; Stockberger, 1915 - L; _____, 1874 - XF; Saunders, 1882 - XF; Holmes, 1900 - XF; True, 1913 - F; Wasicky, 1913 - R; _____, 1914 - R; Editor, 1915 - R; Wulling, 1915 - R; Schneider, 1917 - R.
- Sambucus canadensis*. Holmes, 1905 - XF; Henkel, 1913 - F; _____, 1917 - H.
- Sambucus niger*. Green, 1892 - L; Daugherty, 1903 - L; Holmes, 1905 - XF; _____, 1908 - H; Guyer, 1921 - H.
- Sanguinaria*. Bruder, 1914 - XF.
- Sanguinaria canadensis*. Vasey, 1884 - L; Henkel, 1907 - F; True, 1912 - R.
- Santalum album*. Pigot, 1901 - L.
- Santolina chamaecyparissus*. Holmes, 1900 - XF.
- Saponaria officinalis*. Henkel, 1907 - F.
- Sarothamnus scoparius*. Saunders, 1882 - XF.
- Sassafras officinale*. Proctor, 1866 - H.
- Sassafras sassafras*. Henkel, 1909 - F.
- Sassafras variifolium*. Rabak, 1910 - L.
- Satureja hortensis*. Hood, 1907 - L; Gibbs, 1909 - L; Holmes, 1900 - XF.
- Satureia*. Editor, 1915 - R.

- Satureia montana*. Holmes, 1900 - XF.
- Schinus molle*. Guibourt, 1866 - H.
- Scoparius cytysis*. Carr, 1913 - R; Umney, 1915 - R;
_____, 1917 - R.
- Scopla atropoides*. _____, 1900 - XF.
- Senna*. True, 1912 - R.
- Serenoa serrulata*. Henkel, 1913 - F.
- Serpenteria*. Stockberger, 1915 - L; True, 1912 - R.
- Sesamum indicum*. True, 1912 - R.
- Sesamum orientale*. Browne, 1854 - L; Simmonds, 1871 - L;
Simmonds, 1877 - L; Semler, 1900 - L;
Daugherty, 1903 - L; True, 1907 - L;
Tschirch, 1912 - L; Parrish, 1860 - H.
- Silene stellata*. Evans, 1859 - H.
- Silex rubra*. Carr, 1908 - XF.
- Silphium laciniatum*. Evans, 1859.
- Sinapis album*. Browne, 1854 - L; Saunders, 1887 - L;
Daugherty, 1903 - L; Beattie, 1906 - L;
Gibbs, 1909 - L; Willis, 1909 - L; Clute,
1914 - L; Henkel, 1904 - F; Henkel, 1913 -
F.
- Sinapis nigrum*. Simmonds, 1871 - L.
- Smilax medicus*. Wilcox, 1916 - L.
- Solanum carolinense*. Maisch, 1889 - H.
- Solanum dulcamara*. Saunders, 1882 - XF; Holmes, 1905 - XF;
Henkel, 1909 - F; _____, 1908 - H.
- Solanum nigrum*. Miller, 1912 - L.

- Solidago*. Holmes, 1900 - XF.
- Sorbus americana*. Henkel, 1909 - F.
- Spigelia marilandica*. Vasey, 1884 - L; Castle, 1886 - L;
Stockberger, 1915 - L; Kilmer,
1915 - XF; Henkel, 1907 - F; True,
1912 - R;
- Sterculia acuminata*. Christy, 1885 - L.
- Stillingia*. Bruder, 1915 - XF.
- Stillingia salvatica*. Henkel, 1907 - F.
- Strophanthus*. Wilcox, 1916 - L.
- Styrax benzoin*. Tschirch, 1891 - L.
- Strychnos Nux Vomica*. Tschirch, 1891 - L; Olivares, 1912 -
L; Mac Millan, 1913 - R.
- Sumbul*. Holmes, 1897 - XF.
- Swertia shirayata*. _____, 1917 - R.
- Symplocarpus foetidus*. Vasey, 1885 - L; Henkel, 1907 - F.
- Symphytum officinale*. Holmes, 1900 - XF; Henkel, 1907 - F;
Wulling, 1915 - R.
- Tamarindus indicus*. Tschirch, 1891 - L; Semler, 1900 - L.
- Tamus communis*. _____, 1908 - H.
- Tanacetum vulgare*. Browne, 1854 - L; Rabak, 1910 - L;
Whatmough, 1914 - L; Stockberger,
1915 - L; Saunders, 1882 - XF; Holmes,
1900 - XF; Henkel, 1904 - F; Ellis,
1917 - H; _____, 1908 - H.
- Tapioca*. Studer, 1882 - L; Tschirch, 1891 - L.
- Taraxacum officinalis*. Beattie, 1906 - L; Hood, 1907 - L;

Whatmough, 1914 - L; Stockberger,
1915 - L; Holmes, 1881 - XF;
Saunders, 1882 - XF; Holmes, 1905 -
XF; _____, 1910 - XF; Bruder, 1915
XF; _____, 1914 - R; Umney, 1915 -
R; Wulling, 1915 - R; A drug grow-
er, 1917 - R; _____, 1917 - R;
Farmers' Bul. #186, 1904 - H; A
drug grower, 1917 - H; _____,
1908 - H; Guyer, 1921 - H.

Taraxacum taraxacum. Henkel, 1904 - F; Henkel, 1907 - F.

Taxus baccata. Holmes, 1905 - XF.

Teucrium canadense. Whatmough, 1914 - L.

Teucrium chamaedrys. Holmes, 1900 - XF.

Thea sinensis. Smith, 1849 - L; Le Duc, 1880 - L; Van
Buren, 1880 - L; Goldsborough, 1882 - L;
Colman, 1886 - L; Morey, 1886 - L; Siler,
1888 - L; Shepard, 1892 - L; Semler,
1897 - L; _____, 1898 - L; Moseley, 1900 -
L; Cook, 1901 - L; Osgood, 1903 - L; But-
man, 1907 - L; Shepard, 1907 - L; Willis,
1909 - L; Mitchell, 1912 - L; Directors'
Annual Report, 1889 - H.

Theobroma cacao. Bird, 1886 - L; Tschirch, 1891 - L;
Nichols, 1897 - L; Semler, 1897 - L;
Donaldson, 1903 - L; Collins, 1907 - L;
Willis, 1909 - L; Whimper, 1912 - L;

Clute, 1916 - L; Seigfried, 1912 - R;

Directors' Annual Report, 1889 - H.

Thymus (Spanish). Cabellero, 1920 - H.

Thymus vulgaris. Browne, 1854 - L; Henderson, 1865 - L;
Hood, 1907 - L; Gibbs, 1909 - L; Holmes,
1881 - XF; Holmes, 1900 - XF; Umney,
1912 - R; Evans, 1912 - R; Holmes, 1912
R; Greenish, 1912 - R; Allen, 1912 - R;
Barrett, 1912 - R; Cooper, 1913 - R;
Cooper, 1914 - R; _____, 1914 - R;
Editor, 1915 - R; Umney, 1916 - R.

Tilia americana. Green, 1892 - L; Mason, 1886 - L; Stock-
berger, 1915 - L; Henkel, 1913 - F.

Trichostema lanatum. Blochman, 1893 - H.

Trigonella or Fenugreek. Saunders, 1870 - H.

Trillium erectum. Henkel, 1907 - F.

Triticum. Bruder, 1914 - XF.

Triticum vulgare. Holmes, 1905 - XF.

Tsuga canadensis. Green, 1892 - L.

Tussilago farfara. Umney, 1913 - R; _____, 1908 - H.

Ulmus campestris. Holmes, 1905 - XF.

Ulmus fulva. Green, 1892 - L; Evans, 1912 - R.

Ulmus pubescens. Henkel, 1909 - F.

Ulmus racemosa. Evans, 1859 - H.

Urginea maritima. _____, 1917 - R.

Valeriana officinalis. Castle, 1886 - L; Petzold-Suz,
1897 - L; Tschirch, 1912 - L;

Whatmough, 1914 - L; Stockberger,
1915 - L; Saunders, 1882 - XF;
Holmes, 1900 - XF; Holmes, 1905 - XF;
Evans, 1912 - R; True, 1912 - R;
Wasicky, 1913 - R; _____, 1914 - R;
Wulling, 1915 - R; A Drug Grower,
1917 - R; Ellis, 1917 - H; A Drug
Grower, 1917 - H; Lybing, 1917 - H;
_____, 1908 - H; Guyer, 1921 - H.

Valeriana penciflora. Evans, 1859 - H.

Vanillas (general). Beringer, 1892 - H; Hires, 1893 - H.

Vanilla planifolia. Saunders, 1870 - L; Simmonds, 1871 -
L; Vasey, 1885 - L; Saunders, 1887 -
L; Tschirch, 1891 - L; Schaefer,
1894 - L; Jones, 1899 - L; Cook,
1901 - L; _____, 1906 - L; Butnan,
1907 - L; Chace, 1908 - L; Willis,
1909 - L; Ridley, 1912 - L; Wedell,
1912 - L; Wilcox, 1916 - L; Seigfried,
1912 - R; Directors' Annual Report,
1889 - H.

Veratrum album. Castle, 1886 - L; Saunders, 1882 - XF.

Veratrum sadabilla. Guibourt, 1866 - H.

Veratrum viride. Vasey, 1884 - L; Georgian, 1914 - L;
Henkel, 1907 - F; Guyer, 1921 - H.

Verbascum phlomoides. Petzold-Suz, 1897 - L; Tschirch,
1912 - L.

- Verbascum thapsus*. Diffloth, 1901 - L; Henkel, 1904 - F;
Henkel, 1913 - F; Wulling, 1915 - R;
_____, 1908 - H.
- Verbena urticaefolia*. Evans, 1859 - H.
- Veronica virginica*. Henkel, 1907 - F; Evans, J.R., 1859 -
H.
- Viburnum opulus*. Green, 1892 - L.
- Viburnum prunifolium*. Henkel, 1909 - F.
- Viola odorata*. Mason, 1886 - L; Petzold-Suz, 1897 - L;
Allen, 1913 - L.
- Viola tricolor*. Bush, 1914 - R.
- Volatile oils. Todd, 1919 - H.
- White Dead Nettle. Wasicky, 1913 - R.
- Xanthoxylum americanum*. Henkel, 1909 - F.
- Xanthoxylum clava-herculis*. Henkel, 1909; Henkel, 1913.
- Zauschneria californica*. Blochman, 1893 - H.
- Zingiber officinalis*. Browne, 1854 - L; Browne, 1855 - L;
Simmonds, 1877 - L; Saunders, 1889 -
L; Saunders, 1897 - L; King, 1901 -
L; Butman, 1907 - L; _____, 1909 -
L; Gibbs, 1909 - L; Willis, 1909 -
L; Ridley, 1912 - L; Clute, 1914 -
L; Whatmough, 1914 - L; Wilcox,
1916 - L; Shenstone, 1917 - R;
Fawcett, 1894 - H; Kilmer, 1898 -
H.

Approved by W. G. Richtmann.

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