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Number 62

A Bibliography of Rhubarb and *Rheum* Species

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ABSTRACT

Marshall, D. E. 1988. A Bibliography of Rhubarb and *Rheum* Species. United States Department of Agriculture, National Agricultural Library and Agricultural Research Service Bibliographies and Literature of Agriculture No. 62. 377 p.

Rhubarb, *Rheum rhabarbarum*, commonly called *R. rhaponticum*, is an ancient plant. Rhubarb is a name applied both to a drug and to a vegetable. Rhubarb includes a large genus of perennial, coarse- and large-leaved, stout herbs, distributed in the temperate and subtropical regions of the world, chiefly in Asia. Several species are used as drugs in medicine; some are used for culinary purposes; and a few others are grown as ornamentals. This compilation of over 3,385 references is an exhaustive listing of every known area of research from around the world, with basic and applied research reports, bulletins, theses, books, and a limited number of popular articles. Rhubarb as a vegetable for food consists of the leaf stalks or petioles of *Rheum rhabarbarum* or *R. rhaponticum*. The large leaves, however, are very toxic to humans and some animals because of the calcium oxalates and/or anthrone glycosides they contain. Many fatalities have been recorded from the ingestion of the leaves. Rhubarb's medicinal use dates back to B.C. 2700 in China. Dried, powdered roots of *R. palamatum*, *R. officinale*, *R. emodi*, etc., are used as ingredients in purgatives, laxatives, stomachics, and digestive tonics.

DISCLAIMERS

This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, beneficial insects, desirable plants, and fish or other wildlife -- if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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A Bibliography of Rhubarb and *Rheum* Species

Compiled by:
Dale E. Marshall
Agricultural Research Service

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INTRODUCTION

Rhubarb:

Kingdom = Plantae;

Phylum = Spermatophyta;

Division = Angiospermae;

Class = Dicotyledoneae;

Family {Buckwheat} = Polygonaceae: Polygonoideae: Rumiceae;

Genus = *Rheum*;

Species = *rhabarbarum*, *rhaponticum*, *officinale*, *palmatum*, *emodi*, etc.;

Common name = Rhubarb, pie plant, wine plant;

Cultivar = Valentine, Victoria, Canada Red, McDonald, etc.

Rhubarb is an ancient plant. Rhubarb is a name applied both to a drug and to a vegetable. It includes a large genus of perennial, coarse- and large-leaved, stout herbs, distributed in the temperate and subtropical regions of the world, chiefly in Asia. Several species are used as medicinal drugs. Some are used for culinary purposes, and a few are grown as ornamentals. This compilation was started in 1977, after the compiler developed a successful mechanical harvester for field-grown rhubarb in 1976 (Marshall, D. E. 1986. Design and performance of a mechanical harvester for field-grown rhubarb. Transactions of the ASAE 29(3):652-655). The quest for additional information was an outgrowth of the compiler's study of research results on the physical plant growth characteristics to variety, between row and in-row spacing, fertilization, etc.

In the beginning the compilation was concerned only with the horticultural aspects of edible rhubarb or "Pie Plant" (*Rheum rhabarbarum*, commonly called *R. rhaponticum*). Very soon it became evident that there was another larger related area -- medicinal species and associated uses. The decision was made to include the medicinal *Rheum* species references because of the presumed similarity that might exist in the horticultural aspects of the crop (breeding, culture, disease, pest control, etc.).

Rhubarb as a vegetable consists of the leaf stalks or petioles. Today we typically serve the rosy-colored stalks as a dessert. The large leaves, however, are very toxic to humans and some animals because they contain calcium oxalates and/or anthrones. Many fatalities have been recorded from the ingestion of the leaves. The petioles are rather low in vitamins and minerals but do contain significant amounts of calcium, potassium, and vitamins A and C. Rhubarb plants are heavy feeders and thrive in soils high in organic matter. New plantings should be raised by dividing strong crowns, since propagation from seed does not produce true-to-type plants.

Most commercial field-grown rhubarb is frozen by processing companies for later use in pies. The majority of it goes into bulk pack for institutional use, but some is sold in consumer-size packages. A small amount is sold fresh, mostly in roadside markets and in local stores.

Hothouse (winter-forced) rhubarb with its redder and more tender stalks is produced by forcing 2- to 4-year-old, fall-dug roots in heated forcing houses in the dark. However, because of the large amount of labor involved and energy costs, its production is declining. Presentation in modern packaging, such as shrink-wrapping, together with suitable promotion could reverse this decline in demand.

Rhubarb as a drug has been used as medicine from very early times, as described in the Chinese herbal "Pen-ching" and dates back to ca. B.C. 2700. Seventeenth-century women used the acidic plant as a hair bleach. Medicinal rhubarb consists of the roots of the plant and was known to and prescribed by Greek and other ancient physicians, including Dioscorides in the first century A.D. and Galen in the second century. This classic use of rhubarb led to its later importation and use. Rhubarb may have found its way to the Mediterranean world from the borderlands of China. It is difficult to trace its history because there are several types. In the eighth or ninth century, rhubarb appears to have found its way to Europe by way of the Indus and Persian Gulf to the Red Sea and Alexandria and was described as "East Indian" rhubarb. Some also came by way of Persia and the Caspian to Syria and Asia Minor, reached Europe from the ports of Aleppo and Smyrna, and became known as "Turkey" rhubarb. Owing to the expense of carrying the drug across the breadth of Asia and the difficulty of preserving it from the attacks of insects, rhubarb was one of the most costly drugs. In 1542 it was sold in France for 10 times the price of cinnamon, and in a 1657 English price list, rhubarb sold for 2.7 times more than opium. Probably beginning in the 1640s, Chinese rhubarb reached Europe chiefly by way of Moscow. By 1657 the rhubarb trade had become a monopoly of the Russian government, in consequence of which the term "Russian" or "crown" rhubarb came to be applied to it. Marco Polo wrote, "all over the mountains of the province of Tangutia rhubarb is found in great abundance, and thither merchants come to buy it, and to carry it thence to all parts of the world." Urga was a great depot for the rhubarb trade in the early 18th century, but in 1728 the depot was transferred to Kiakhta. From 1735 on, all rhubarb brought to the depot passed through the hands of the government inspector; hence Russian rhubarb was invariably good and obtained a remarkably high price. This severe supervision naturally led to a search for a new outlet as soon as the northern Chinese ports were thrown open to European trade in the mid-19th century. The increased demand for the drug at these ports resulted in less care being exercised by the Chinese in the collection and curing of the root, so that the rhubarb offered at Kiakhta decreased rapidly in quantity. After 1860 Russian rhubarb ceased to appear in European commerce.

Dioscorides, a Silician and originator of the materia medica (the branch of science in medicine treating the drugs and other substances from which medicines are made), was a Greek army surgeon in the service of Nero (A.D. 54-68). He used his opportunities of travel to study plants. In ancient times camel caravans laden with treasures and rhubarb root from the Far East halted at the Russian river Rha (the Greek name for the river Volga). From the river Rha boats took their charges to Greece and Rome. Because the river was called Rha, sometimes Ria, or Reon and the plant had come from the so-called barbarous lands of the east, the Romans gave it the name *Rha ponticum* or *Rha barbarum*, from which comes our botanical species name: *Rhaponticum* and *Rhabarbarum*. Further, *Rha* and *Ria* and *Reon* became *Rheu* (botanical genus *Rheum*). *Rheu* shortens to rhu and barbarum shortens to barb: hence its common name RHUBARB. Roughly speaking there were three main types of rhubarbs -- the Chinese, the Indian or Himalayan, and the rhapontic. The Chinese rhubarb, official in some pharmacopoeias, consists of the rhizomes and roots of *Rheum palmatum* L. and *R. officinale* Baill. The Indian rhubarb, which is official in Indian pharmacopoeias, gained importance during World War II when the supplies of Chinese rhubarb became scarce. It consists of the dried rhizomes of *R. emodi* Wall. and *R. webbianum*, and other species of *Rheum*. Rhapontic rhubarb consists of the rhizomes of *R. rhabarbarum* L. or *R. rhaponticum* L. It may cause gripe and is not official in the pharmacopoeias.

In medicine, two areas of study are pharmacology (the science that deals with the activity, administration, and especially the effects of drugs) and pharmacognosy (materia medica) which studies drugs of natural origins, particularly sources, nature, properties and

preparation, as well as phytochemistry and substance analysis. The *Rheum* species used in medicine are different from the species that are eaten. In medicinal use the dried rhizomes and roots of some *Rheum* species and their hybrids are used as an ingredient of purgatives, laxatives, and stomachic or digestive tonics. Rhubarb is a mild anthraquinone purgative, which has properties similar to those of senna fruit. Its action, however, differs from that of other anthraquinone-containing drugs in that the tannin present in rhubarb may exert an astringent action (restricting bowel movement) after purgation. The dose of rhubarb is 1 gram (15.4 grains) (USP, Official Pharmacopoeia #12). A typical preparation is Pulvis Rhei Compositus (Gregory's Powder) which is composed of 2 parts rhubarb, 6 of magnesia, and 1 of ginger, with dose of 20 to 60 grains.

This compilation contains over 3,385 references to rhubarb and *Rheum* species. Also included are many abstracts or reviews since many of these are translated into English and may be more readily accessible than the original references, especially the foreign ones. The compilation primarily contains references to basic and applied research data on rhubarb or *Rheum* species, research reports, bulletins, theses, and books. A limited number of popular articles have also been included for their historical value.

The "Subject Index" is the key to finding specific information on the various aspects of rhubarb in this bibliography. Look up the desired keyword to see what references are applicable. Keywords are provided below the reference only when appropriate descriptive words are not contained in the reference title.

BIBLIOGRAPHY REFERENCE FORMAT

REFERENCE CITATION FORMAT

In general, the literature citation format follows:

- 1) Council of Biology Editors Style Manual (3rd Edn.). 1972.
- 2) Institute of Food Technologists Style Guide for Research Papers. IFT Style Guide (Rev 4) 12/82. 2C.
- 3) American Society for Horticultural Science's Instructions to Authors for HortScience. 1987. HortScience 22(1):183-187.

ABBREVIATIONS

(Comp.) = Those listed were the book or proceeding's compiler(s).

(Ed.) = Those listed were the book or proceeding's editor(s).

(Edn.) = Edition.

(n.s.) = New series of a periodical.

(sic.) = Copied exactly as written.

ABSTRACT AND PERIODICAL

Loughton, A. 1965. Effects of environment on bud growth of rhubarb with particular reference to low temperature before forcing (EN). The Journal of Horticultural Science 40(4):325-339.

Also: 1966. Horticultural Abstracts 36:1103.

where: 40 = Volume, (4) = Issue number, 325-339 = text pages, and: 1103 = Abstract number, if given, otherwise page number.

NOTE: If "Abstract" or "Review" is in an abstracting-type journal source name, such as Chemical Abstracts or Review of Applied Mycology, an abstract is implied and not restated. If "Abstract" or "Review" is not in the title, such as Planta Medica, HortScience, etc., "Abstract" is added. In some abstracting publications both abstract number and page number appear on the abstract page. In such cases, the number following the colon (:) is the abstract number rather than page number(s).

ALPHABETIZATION

In references where no "author" is listed or known, the "source" is shown as the "author" rather than "anonymous." Author names or source names are alphabetized in the order of the letters of the English alphabet. Prepositions or articles (de, le, van) may or may not be transposed. The determination was made using the actual reprint as a guide along with generally accepted practice. In listing the references the following words have been disregarded in the alphabetization of the references: Acta, an, and, annal(s), annales, annual, b, ber, berichte, biul, bull, bulletin, byull, de, dept, department, die, der, j, jnl, journal, int, int'l, international, inst, institute, memories, proc, proceedings, of, remembrances, rep, report, rev, review, revue, the, trans, transactions, univ, university, z, zn, znl, zurnal.

ASTERISK (*)

An asterisk (*) at the left of the "author" indicates a copy of the reference is on hand in the compiler's files and the citation details have been verified. A blank (no *) indicates the citation is not on hand and therefore has not been verified and may be lacking exact reference details.

ANNUAL STATION OR COMPILED REPORTS

Loughton, A. 1961b. Rhubarb manurial experiment, p. 36-38. Rhubarb: spacing/nitrogen/age of root, p. 39. Rhubarb: varieties for green pulling, p. 39-40. Rhubarb: removal of fangs, p. 41-43. Rhubarb virus investigation, p. 44. The Influence of the level of nitrogen nutrition of the low temperature requirements of rhubarb roots before forcing 1959-60, p. 44-45. (in) Stockbridge House Experimental Horticulture Station Annual Report, 1960 (EN). 89 p.

(The b in 1961b indicates that this article is the second of two articles with the exact same authorship for that year. If there were 2 articles in the same year: Loughton, A. 1961 and a Loughton, A. and S. Smith 1961, neither would have a suffix letter).

BOOK

Bland, R. 1915. Winter rhubarb, culture and marketing (EN). San Luis Rey. 69 p.

BOOK (Chapter or section)

Walkey, D. G. A. 1980. Production of virus-free plants by tissue culture, p. 109-117. (in) Ingram, D. S. and J. P. Helgeson (Eds.). Tissue Culture Methods for Plant Pathologists (EN). Blackwell Scientific Publications. Oxford. 725 p.

BOOK (Discussion without identified author in a specific chapter or section heading)

Smith, D. L. (Ed.). 1988. Advances in vegetable breeding (EN). University Press. New York. p. 36-42. 236 p.

BULLETIN

Helsel, D., D. E. Marshall, and B. H. Zandstra. 1981. Rhubarb - Cultural Guidelines for Michigan (EN). Michigan State University Extension Bulletin E-1577. 2 p.

DIACRITICAL MARKS

Marks, such as ' , / , ~ , the umlaut of German vowels and the frequent "e" replacement for the umlaut added after German vowels have been omitted to simplify alphabetization and printing.

KEYWORDS

When the title is clearly descriptive of the report's contents no keywords are given.
When the title doesn't describe the contents fully, keywords added.

LANGUAGE	(BU) = BUlgaria	rewen
ABBREVIATIONS	(CH) = CHina	Da-huang, Hainoung
AND NAMES FOR	(CR) = CRoatian	reven, raved, reobarbara
RHUBARB	(CE) = CEsky (Czechlovakia)	revene, neb, rebarbora
	(DA) = DANish (Denmark)	rabarber
	(DE) = DEutsch (German)	rhabarber
	(EE) = EEsti (Estonian)	rabarber
	(EN) = ENglish	rhubarb
	(ES) = ESpanol (Spanish)	ruibarbo
	(FI) = FINnish	raparperin
	(FR) = FRench	rhubarbe
	(HU) = HUnghary	rebarbara
	(IT) = ITalian	rabarbaro
	(JA) = JApinese	Daio
	(KO) = KOrean	
	(LA) = LAtin	rhabarbaru, rhabarbari, radix rhei
	(LV) = LatVian	
	(NL) = NetherLands (Dutch), (Flemish)	rabarber
	(NO) = NORwegian	rabara, rhabarber
	(PL) = PoLish	rabarbar, rzewien
	(PT) = PorTuguese	ruibarbo hortense
	(RO) = ROmanian	rabarba
	(RU) = RUssian	revenia, rewen
	(SR) = SeRbian	
	(SK) = SlovaK	rabarbara, reven
	(SV) = SVensk (Swedish)	rabarber
	(UK) = UKranian	
	(UZ) = UZbek	

THESES, DISSERTATIONS

Neibauer, J. E. 1974. The effects of fungicides, storage temperature, storage humidity, and time of crown division on storage rot of rhubarb (*Rheum rhaponticum* L.) (EN). MS thesis, Horticulture Department, Michigan State University. 26 p.

TRANSLATIONS

Zwaving, J. H. 1965. Trennung und Isolierung der Anthrachinonglykoside von *Rheum palmatum* (Separation and isolation of anthraquinone glycosides from *Rheum palmatum*) (DE, EN). *Planta Medica* 13(4):474-484.

A title is shown in its original language followed by its abstract's or summary's translation(s) and language abbreviation. When not written in the Roman alphabet such as Russian, Chinese, Japanese, Korean, etc., only the translation is shown and not the transliteration. When more than one language is shown, the first is the language of the report and the succeeding abbreviations are those of its summaries or abstracts.

WORLDWIDE RHUBARB RESEARCH INSTITUTIONS AND INDIVIDUALS

Since there is relatively little research being conducted on rhubarb or *Rheum*, listed below is a current list of known active (or recently active) research institutions, research locations, and individuals, presented with their general interest area(s). If any were omitted, please accept my apologies.

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This compilation would not have been possible without the unfailing assistance of the Interlibrary Loan Department of Michigan State University and the staff of the United States Department of Agriculture's National Agricultural Library, Beltsville, MD, and the individuals and researchers at other libraries and research stations throughout the world who responded to requests for copies of current or out-of-print reports. Special thanks are due to Dr. George Hocking, Professor Emeritus, Auburn University School of Pharmacy, Auburn, AL, for his extensive editorial efforts and technical assistance and Dr. Jan H. Zwaving, Sr. Lecturer in Pharmacognosy, Laboratorium voor Farmacognosie en Galensiche Farmacie, State University of Groningen, Groningen, The Netherlands, for his many varied efforts, manuscript reviews, and unfailing assistance.

BIBLIOGRAPHY REVIEWERS

An intense effort was made to have this bibliography reviewed by as many of the active rhubarb or *Rheum* researchers in the world as possible. Those individuals shown in the section "Worldwide rhubarb research institutions and individuals" with (Reviewer) following their listing and many of those listed in the Acknowledgments section reviewed this bibliography. Their suggestions, corrections, additions, and comments have all been considered in the final draft. Their efforts have been an invaluable assistance to its accuracy and completeness.

REPOSITORY FOR REPRINTS ON HAND

Since over 85% of the references cited are on hand (those shown with an asterisk: *), the compiler will donate the entire rhubarb and *Rheum* reprint collection (consuming over 10 ft. of shelf space) to the USDA National Agricultural Library, Beltsville, MD, within 1 year so that it will be available to all. The collection will be housed in the Special Collections Program Division of the Library.

The Special Collections Program is a unique part of the National Agricultural Library. The Collection is comprised of original manuscripts, archival materials, over 50,000 rare books, a photo-browsing collection of 60,000 images, more than 100,000 slides, 13,000 maps, 1,200 posters, works of botanical art, audio-visual materials, oral histories, and one of the largest nursery and seed trade catalog collections in the world. When the Department of Agriculture was established in 1862, Isaac Newton, the first Commissioner of Agriculture, placed near the top of his list the establishment of an agricultural library. It was his belief that "the most valuable work would gradually accumulate by exchange, gift and purchase, forming a rich mine of knowledge." Any comments or questions may be forwarded to the compiler:

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BIBLIOGRAPHY ON RHUBARB AND *RHEUM* SPECIES

- * Aasheim, S. 1861. Rhabarbra (Rhubarb) (NO). Bt University i Bergen. Godbiter fra Samlingene No. 24.
Keywords: Culture
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apple and pear juice is nutritionally better having significantly more vitamins
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Keywords: Variety description identification: Turkey rhubarb (East Indian rhubarb,

China rhubarb) *Rheum palmatum*, *R. rhaponticum*, English rhubarb (Garden rhubarb, bastard rhubarb, sweet round-leaved dock) *Rheum rhaponticum*, Willd., Monk's rhubarb (Garden patience) *Rumex alpinus*, Linn., oxalic acid - poisoning

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Muller 1911

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Asahi 1974, Auterhoff 1951, 1953b, 1959a, b, 1962, Baier 1970, Beal 1925, Brant 1922, Cabo Torres 1957, Caleffi 1970, Castagnola 1976, Chen, Cheng and Wang 1981, Chen, Yu, Lai 1963, Chumburidze 1956, Csaitai 1975a, Daels 1913, Dulk 1839, Dusek 1986, Ebel 1977, Edner 1907, Fairbairn 1942, 1951, Fernandes 1940, Floret 1960, The Forest Research Inst. 1945, Frattini 1974, Friedrich 1973a, b, Ghosh 1945, Gracza 1984, Gstirner 1969, Hao 1982, 1984, He 1980, 1981, 1985, 1986, Henneberg 1957, 1960, 1961, Henry 1836, 1837, Hisamitsu Pharm. Co. Inc. 1981a, b, Holzschuh 1982, Huseman 1877, Jacob 1954, Janot 1944, Karmazin 1966, Konnerth 1930, Lemli 1965, 1976, Li 1980, Luo 1987, Lukie 1960, Maier 1924, Maurin 1923, 1932, Minina 1971, Mohiuddin 1933, 1935, Muhlemann 1967, Muller 1962, Nano 1960, Nonaka 1985, Oshio 1978, Paris 1955, 1958, Pasquale 1978, Romanova 1961, 1965, 1969b, Ruszkowski 1925, Sagara 1987, Schmid 1951, Schratz 1954a, b, c, 1960b, Schratz and Niewoehner 1959, Schratz and Tombergs 1954a, b, Schratz and Vethacke 1958, Shah 1972, Siesto 1957b, Stahl 1985, Strom 1948, Struhar 1963, Struyf 1975, Suminokura 1960, Sun 1985, 1986, Takido 1957, Tieffnau 1924, Tschirch 1904c, d, e, 1928, Tschirch and Christofolletti 1904, Tschirch and Edner 1907b, Tschirch and Heuberger 1904, Tschirch and Schmitz 1928, Verhaeren 1978, 1982, Wang 1983, Yu 1985, Yuan 1982, Zielinska-Sowicka 1968, 1974, Zwaving 1972, 1974b, 1975, 1980, Zwaving and Elema 1976

General

Am. Pharm. Assoc. 1912, Aweng 1898a, Bellaart 1954, Bentley 1937, Bertrand 1931, Bezanger-Beauquesne 1980, Bley 1864, Brandes 1819, 1834, 1836, Brandt 1922, Chaudhari 1983, Chen 1966, Chinese Acad. Sci. 1977, Chumbalov 1970, Dragendorff 1878a, b, Dulk 1839, DuMeil 1826, Eijken 1904a, b, Engelshowe 1985, Fuhner 1927, Geiger 1834a, b, c, Gessner 1931, Gilson 1898a, b, 1905a, b, c, 1906, 1907, Goris 1907, Grothe 1861, He 1981, Hegnauer 1969, Heilbron 1938, Hesse 1895a, b, 1899, 1908, Heilbron 1838, Hieke 1940, Holstrom 1921, Hornemann 1822, Hunkel 1900, Ind. J. Pharm. 1941, Jiang 1981, Keussler 1879, Khorana 1965, Kodama 1987, Kremel 1889, Leistner 1969, 1971, Liebermann 1875, 1899, Meykow 1858, Meynaud 1968, Mouhiuddin 1933, 1935, Muhlemann 1949, Nawa 1960, Neumann 1752, Neurath 1977, Ohtsu 1976, Os 1957, 1976a, Pasquale 1978, Preuss 1971, Rapoti 1977, Ray 1944, Regel 1882, Rochleder 1862, 1869, Romanova 1964, Rue 1858, Rutherford 1972, 1975, 1977a, b, Scherrer 1941, Schlossberger 1844, Segal 1964, Siesto 1957, Struyf 1975, Taraskina 1963, Thann 1858, Trease 1972, 1978, Treptow 1985b, Tschirch 1898a, b, 1899, 1900a, 1904a, Tschirch and Ruszkowski 1912, Tsuboi 1977, Tsukida 1954, 1957, Tsukui 1974, Tukats 1935, Tummin Katti 1933, Vaudin 1826a, b, Verhaeren 1978, Wehmer 1929, Windholz 1976, Yamasaki 1977, Zhang 1986, Zhao 1981, Zwaving 1980

Identification

Albert 1984, Am. Pharm. Assoc. 1912, Anchel 1948, Auterhoff 1958, 1966, Beal 1917, Berardi 1926, Beyer 1966, Bleier 1976, Blin 1943, Bogs 1966, Brunzema 1928, Chen 1981, Chumbalov 1970, Chumbalov and Nurgalieva 1967b, Cobb 1853, De Rose 1944, 1945, Eijken 1904a, b, Fairbairn 1949, 1955, Fairbairn and El-Muhtadi 1972, Fairbairn and Lou 1951, Floret 1957, Furuya 1966, 1975, Grant 1920, He

COMPOSITION - CHEMICAL - Anthraquinones - Identification (Cont'd)

1980, Henneberg 1960, 1961, Henry 1814a, b, 1822, Hesse 1896, 1908a, b, Horhammer 1959, 1963, Hubbard 1917, Hubik 1979, Illari 1955, Klimek 1973, Kofler 1918, Kozo 1973, Labadie 1967a, Lemli 1964, 1972, 1974, Li 1980, Liyi 1980, Markovic 1951, Maruyama 1973, Mattioni 1967, Nawa 1961, Neuhoff 1954, Noguchi 1978, Nonaka 1983, 1985, Oesterle 1903, 1911a, b, Oesterle and Sypkens-Toxopeus 1911a, b, Oesterle and Tisza 1908, Okabe 1973, Os 1954, 1957, Petcoff 1971, Quercia 1980, Rai 1974, 1978, Romanova and Bankovskii 1963a, 1969a, Rousselet 1971, Schnelle 1966, Schratz and Witt 1966, Schweizerische Wochenschrift fur Chemie und Pharmazie 1905, Segal 1964, Siesto 1958, Stahl 1978, 1985, Su 1963, Tan 1983, Tschirch 1905a, 1907, 1910, Tschirch and Christofolletti 1905, Tschirch and Edner 1907a, Tsukida 1954, 1957, Tunmann 1913, 1918, Van Cotthem 1963, Vyth 1979, Wagner 1957, Wagner and Horhammer 1968, Wagner, Horhammer, et al. 1962, Wallis 1934, Wang, Chen, 1977, Wang Liang, et al. 1963, Wasicky 1915, 1924, 1966, Wood 1943, Wrolstad 1968, 1971, Yagi 1971, Zwaving 1968, 1973, 1974a, b, 1980

Isolation

Albert 1984, Ban 1963, Bankovskii 1969, Bellaart 1952a, 1953, 1954, 1958, 1962, 1971, Beyer 1966, Carelli 1957, Casparis 1923, Chen and Sun 1962, Cheng 1981, Chirikdjian 1983, Chumbalov and Nurgalieva 1962, Csajtai 1975a, Eijken 1904a, b, Furuya 1975, Gerchow 1951, Gilson 1905, Hesse 1895b, c, 1896, 1899, 1908a, b, Holzschuh 1982, Horhammer 1959, 1964, 1965, Kasai 1985, Kashiwada 1984a, b, c, 1986b, c, 1988, Kelly 1983, Kopp 1981, Krober 1923a, b, Kubly 1867, 1868, Labadie 1967b, Li 1980, 1981, Masuda 1985, Nonanka 1983, 1985, Oshio 1977, Preuss 1971, Qiong-Hua 1980, Romanova and Bankowskii 1963b, 1964, 1966, Schlossberger and Dopping 1844, Schultz 1956, Siesto 1957a, b, Stoll 1948, Taraskina 1963, Tsurumi 1969, Tukats 1925, Tunmann 1917, Tutin 1911, 1913, Uchibayashi 1961, Wagner, Horhammer, Farkas 1963, Yamagishi 1987, Zwaving 1965

Dianthrones

Asahi 1974, Dequeker 1964, Fairbairn 1980, Friedrich 1973a, He 1980, Khorana 1965, Lemli 1963, 1964, 1966 Lemli, Dequeker and Cuveele 1963a, b, c, 1964a, b, c, Markovic 1951, Matsuoka 1973, Miyamoto 1967, Muller 1962, Ohshima 1983, Ohshima, Ohno, et al. 1986, Ohshima, Takahashi, et al. 1983, 1988, Oshio 1978, Oshio, Imahort 1977, Oshio, Oshio, Imai 1972, 1974, Oshio, Naruse 1979, Sugawara 1974, Sagara 1987, Seto 1981, Shibata 1982, Zwaving 1965, 1968, 1972

Dihydroxyanthraquinones -- See COMPOSITION - CHEMICAL - Anthraquinones

Flavonoids

Alyukina 1970, Blundstone 1967, 1970, Chumbalov 1970, Chumbalov and Nurgalieva 1967d, Fujita 1958, Hansel 1954, 1962, Horhammer 1954, Kashiwada 1986a, Tronchet 1969a, b

Gallic Acid -- See COMPOSITION - CHEMICAL - Tannins

General

Ali 1976, Auer 1859, Bellaart 1952b, Benigni 1964, Brander 1908, Couchman 1973, Dobray 1966, Gavrilova 1978, Hegnauer 1969, Katti 1933, Kloke 1964, Korablev 1961, Klimek 1973, Kmiecik 1973b, Kremel 1889, Lamb 1966, Lieber 1853, Ludwig 1864, Marnett 1950, Model 1774, Mulinos 1944, Neumann 1752, Ontario Dept. Agr. 1968, Petrova 1971, Pfaff 1814, 1821, Ridolfi 1823, Schlossberger 1848, Scheele 1785, Sokolskaja 1956, Tanner 1962, Tompkins and Kimura 1967, Tsuboi 1977, Wehmer 1929, Wood 1943, Yamasaki 1977, Zenk 1971

COMPOSITION - CHEMICAL (Cont'd)

Hydroxyanthraquinones -- See COMPOSITION - CHEMICAL - Anthraquinones

Hydroxycinnamic Acid

Blundstone 1970, Heimann 1971, Schmidlein 1975

Hydroxymethylantraquinones -- See COMPOSITION - CHEMICAL - Anthraquinones

Organic Acids -- See COMPOSITION - NUTRITIONAL

Oxalic Acid -- See OXALIC ACID

Oxymethylantraquinones -- See COMPOSITION - CHEMICAL - Anthraquinones

Physicion -- See COMPOSITION - CHEMICAL - Anthraquinones

Rhaponticin (or Rhapontin)

Auterhoff 1955, Baerheim-Svendsen 1953, Banks 1971, Borkowski 1965, Crews 1936, Christofolletti 1905, Csupor 1970, 1971, Czlonkowska 1966, De Rose 1944, 1945, Esteeve 1935, Fluck 1952, Ghouse 1933, Gilson 1904, Gracza 1984, Gstirner 1949, He 1980, Henneberg 1959, 1962, Hesse 1899, 1908a, b, Joachimovitz 1924a, b, c, Juillet 1914, Khafagi 1974, Klimek 1970, 1973, Lang 1957, Li, Yuwei 1981, Maheu 1928, Mattioni 1967, Mouhineidin 1933, Murakami 1972, 1973, Nonaka 1977, Ridolfi 1823, Rupprich 1978, 1980, Schmitz 1959, Schurhoff 1937, Tschirch and Christofolletti 1905, Tschirch and Edner 1907a, Vaudin 1826a, Viehoever 1933, 1937, Wimmer 1919, Wirth 1938, Yagi 1971

Rhein -- See COMPOSITION - CHEMICAL - Anthraquinones

Rheincion -- See COMPOSITION - CHEMICAL - Anthraquinones

Senosides -- See COMPOSITION - CHEMICAL - Dianthrones

Tannins

Allayarov 1971, 1972a, b, Boltenkov 1941, 1954, Brieskorn 1947, Chinese Acad. of For. 1981, Chumbalov and Nurgalieva 1967c, Chumbalov and Pashinina 1958, 1962a, b, 1966, Fatullaev 1984, Friedrich 1966, Friedrich and Hoehle 1966a, b, Gilson 1902a, b, d, 1903, Gstirner 1949, 1970, Hanefeld 1976, Hubik 1979, Inokuchi 1985, Ismailov 1978, Jakabhazy 1903, Jiang 1987, Kashiwada 1984a, b, c, d, 1986a, Li, Kuo, et al., 1980, Lud 1986a, b, Mayer 1975, Mulinos 1944, Nagasawa 1984, 1985, 1986, Nishioka 1983, 1985, 1986, Nonaka 1981, 1983, Pashinina 1967, Peretti 1828, Schmidt 1953, Sokolov 1964, Souchoroukoff 1929, Taraskina 1962, Waring 1868

Volatile Components (Also see PERFUMES)

Frattini 1974, 1976, Mohiuddin 1935

LEAF -- See OXALIC ACID, PHYSIOLOGY

NUTRITIONAL

Univ. of Alaska 1945, Allison 1966, Allsopp 1937, Barshai 1934, Becker-Dillingen 1924, 1956, Beevers 1966, Bennett-Clark 1935, 1937, Bergholm 1982, Bell 1925, Bessey 1933, Birch 1933, Blundstone 1964, 1970, Bondarenko 1984, Brown 1941, Brown 1954, Cameron 1986, Carew 1958, Castoro 1902, Chatfield 1928, Chumbalov and Nurgalieva 1966, Chumbalov and Pashinina 1964, 1966, Clague 1935, Couchman 1973, Culpepper 1932, 1933, Denver Post 1982, De Valck 1982, Dobreanu 1983, Dudek 1982, Durham 1924,

COMPOSITION - NUTRITIONAL (Cont'd)

1928, Duyne 1947, Erkama 1946, Fellers 1936, Fixsen 1938, Gebhardt 1982, Gericke 1948, Guerrant 1935, Haas 1917, 1919, Han 1985, Hartog 1946, Heilmann 1946, Herrmann 1978, Hessler 1929, Hodgkinson 1981, Horhammer 1955, Ismailov 1985, Izumrudova 1934, Karsten 1965, Kawabata 1973, Kayukova 1972, 1973, Kelly 1953, Kozenko 1977, Krauze 1965, Kuusi 1969, Lamb 1966, Libert 1981, Liu 1982, Liverseege 1926, Lonberg 1985, Lutsola 1980, Martinson 1959, Maeda 1964, Marzec 1984, Mathot 1950, Nelson 1928, Nagasawa 1985, New Zealand Dept. of Sci. 1961, Otto 1895, 1897, Park 1982, Petrukhina 1979, Pierson 1920, Pijanowski 1950, Pollard 1950, Prasad 1978, Prenen 1984, Pucher 1937a, b, 1938, Rinno 1965a, b, Rosenthaler 1932, Rowland 1969, Rozov 1972, 1973, Ruban 1984, Rutherford 1977a, b, Salisbury 1849, 1850, Salo 1972, Samotus 1982, Samygin 1967, Schuphan 1948a, b, Shevelo 1973, Shewfelt 1952, Slepchenko 1968, Smart 1985, Smatok 1958, Soendergaard 1984, Somos 1975, Standartov 1971, Tarrach 1985, Tateo 1982, Todhunter 1941, 1942, Toghrol 1976, Treptow 1985a, Trofimova 1977, Trommsdorf 1832, Tschirch 1916, Tsitsina 1959, Van Duyne 1945, 1947, Vickery 1939, Wall 1949, Wallrauch 1971, Washington State Univ. (no date), Watt, Breyer-Brandwijk 1962, Watt, Merrill 1975, Weits, Lassche, Tjalma 1965, Wedler 1984, Willaman 1948, Yakovleva 1982, Zemlyanukhin 1970, Ziegelmayr 1947, Zook 1968

PHYSICAL

Anselmino 1919, Arzberger 1905, Atkins 1972, Bohrisch 1916, Besson 1918, Bois 1928, Brewis 1913, Brovchenko 1963, Brown 1923, Butchner 1831, Buschmann 1978, Chatfield 1928, Crang 1947, Culpepper 1932, 1933, Daughters 1946, Dudek 1982, Durham 1924, 1928, Dymock 1892, Engelshowe 1985, Ewing 1919, Falkowski 1936, Frattini 1974, Frazier 1960, Gallop 1965, Gebhardt 1982, Goris 1907, Gunning 1961, Horhammer 1955, Katan 1982, Kawabata 1973, Kenny 1975, Kling 1964, Kmiecik 1974c, Kremel 1889, Lamb 1966, Lee 1951, Lister 1696/7, Mansfield 1937, Mathot 1950, Michaelis 1849, Nonaka 1985, Pabis 1965, Paech 1950, Penny Cyclopaedia 1841, Petersone 1973, Poore 1922, Prasad 1978, Provolackaja 1962, Rutherford 1977a, b, Qin 1982, Regel 1874, Ridolfi 1823, Salisbury 1849, 1850, Schuphan 1948a, b, Senior 1877, Sherman 1914, Siegrist 1932, Sjivrina 1961, Somos 1975, Stepanova 1972, Towers 1979, Tschirch 1916, Vaudin 1826a, b, Velde 1948, Xiao 1980, 1984, Youngken 1951, Zook 1968, Zyren 1983

COOKING TESTS -- PREPARATION/PRESERVATION

COOPERATIVES -- See MARKETING

COPPER -- See ENVIRONMENTAL POLLUTION (Metallic)

CORROSION (Can)

Clough 1925, Cruess 1958, Henshall 1973, Joslyn 1929, Kohman 1926, Serger 1928

COSMETICS -- See PERFUMES

COUCH CONTROL (Quack Grass = *Agropyron repens*) -- See HERBICIDES

CROWN ROT -- See DISEASES - FUNGAL

CULTIVARS -- See VARIETY

CULTURE

ANNUAL (Production in warm climates)

Bassett 1980 (Florida), Maynard 1986, 1987, 1988a, b (Florida), Tiebout 1941 (Louisiana), Walker 1905 (Arkansas), Whittle 1984 (Georgia)

CULTURE (Cont'd)
FORCING -- See FORCING

GENERAL PRACTICES (Culinary species: *Rheum rhabarbarum*, *R. rhaponticum*)
Aasheim 1961, Abrial 1925, Agr. Gaz. 1955, 1963, Univ. of Alaska 1971, 1978, Am. Plant Advocate 1919, Apeldoorn 1946, Appl 1925, Archakova 1975, Arengo-Jones 1938, Askew 1978, Axelsson 1968, Bailey K. 1955, Bailey L. 1902, 1921, 1943, Baldrati 1953, Bardenwerper 1901, Baumane 1960, Beattie 1921, 1931, 1932, 1937, 1939, 1940, 1946, Beattie 1921, 1937c, Becker-Dillingen 1924, 1956, Begg 1963, Better Homes and Gardens 1957, Bielka 1976, Bland 1915, Blin 1950, Boos 1954, 1972, Bosian 1939, Bowman 1920, Bowser 1944, Box 1945, Brandes 1836, Brehm 1916b, Bromley 1954, Brooks 1967, Brown 1944, 1948, Browne 1976, Bruens 1960, Buishand 1971, Buist 1855, Burenin 1983, Burger 1984, Burr 1865, Bykov 1961, Canciulli 1950, Carew 1962, Carkner 1986, Carlberg 1976, Carlsen 1970, 1982, Carstens 1915, Cattorini 1947, Chapin 1953, Chesley 1926, Chevalier 1942, Chipman 1957, 1978, 1979, Chittenden 1951, Chorlton 1858, Claes 1981, Clark 1977, Clark 1976, Clark 1957, Clarke 1926, Cline 1962, 1966, Collin 1871, 1892, Colt 1983, Combs 1947, 1971, 1976, Combs, Schulte, and Wade 1976, Consumer Reports 1979, Copley 1942, The Country Gentleman 1917, 1919, 1921, Cunningham 1949, 1954, Czuchna 1977, Davis 1967, 1972, Degen 1899, Univ. of Delaware 1979, Dempsey 1933, Dijkstra 1943, Dobray 1966, Douglass 1934, Droop 1900, Dunn 1974, Dwyer 1899, Eastman 1918, Ehrle 1975, Elzenga 1958, Enzie 1935, F., G. B. 1917, Farver 1920 Feint 1916, Felter 1950, Fessenden 1835, Finnis 1966, Fletcher 1943, Franken 1972, Fraser 1966a, Freeman 1936, French 1907, Fuge 1946, Furner 1961, The Furrow 1985, Gardeners' Chronicle 1848, 1920, Gardener and Practical Florist 1844, Gardner 1977, 1979, Gardens for All 1983, Garrison 1977, Gault 1948, 1956, Ginai 1969, Girenko 1981, 1982, Gomez 1944, Gorini 1980, Graves 1943, Green 1914, Greene 1910, Groente en Fruit 1971, Halpin 1978, Hammer 1794, Hardy 1957, Hardy 1946, Harrington 1957, Harrison 1969, 1982, Hartz 1976, Heatley 1977, Hecht 1931, Heeger 1947, 1950, 1956, Heil- und Gewurzpflanzen 1927/1928, Heinen 1975, Held 1890, Helsel 1981, Hendricks 1943, Herisset 1967, Hersey 1962, Hertzog 1978, Hervey 1952, Hibberd 1893, Hill 1945, Hintze 1951, Hlubek 1849, Hodges 1920, Home Gardener 1967, 1972, Hort. 1940, Hort. News 1955, Hoskins 1889a, b, Hosseus 1911, 1912, House Beautiful 1959, Hutchins 1937, Ingratta 1976, 1979, Ismailov 1978, Ivanova 1961, 1967, 1975, 1977, Jack 1945, Johnson 1961, Johnson 1972, Jole 1958, Jones 1797, 1798, Jouqan 1932, Karsten 1970, Kennelly 1947, 1954, 1960, Kesselring 1946, Khaidarov 1973, Kieffer 1925, Kimura 1970, King 1907, Kirbach 1979, Klein 1977, 1987, Kling 1977, 1982, Knott 1955, Kobza 1968, Komarova 1970, Komitee 1926, Koomen 1971, Kooyman 1948, Krejcik 1977, Kristensen 1954, Krober 1921a, 1922, Kroll 1956, 1957, Kromdijk 1947, LeGendre 1925, Lender 1936, Lerner 1985, Leslie 1925, Lezhankina 1969, Loudon 1830, 1860, Loughton 1966, 1972a, Lyall 1968, Mack 1956, MacSelf 1939, Marnette 1950, Marangoni 1934, Marien 1958, Market Growers J. 1916, 1917, 1920, 1946, Marnette 1953, Marr 1980, Marsh 1973, Marten 1874, Martin 1801, Martindale 1971, 1972, Massachusetts Board of Ed. 1913, Masui 1967, Matvey 1961, Matvieev 1978, Mawe 1778, McMahan 1806, Meakins 1981, Med - Kleinserdelbach 1944, Mehwald 1977, Mellard 1978, Michigan State College 1939, 1955, Mihalea 1963, Mikhailova 1946, 1960, Min. of Agr. 1926, Min. of Agr. Fish Food 1949, 1967a, b, 1978b, Min. de l'Agr. du Quebec 1976, Minnesota Hort. 1980, Minnesota State Hort. Soc. 1877, Moens 1968, Moese 1947, Moore 1947, Mordkovich 1956, Morse 1915, Mosbaek 1916, Mose 1947, Mosley 1975, National Gardening Assoc. 1985, Nemchinova 1954, New South Wales 1962, Nicklow 1970, Nissley 1941, Nissley 1925, 1937, Olsen 1947, Ontario Dept. Agr. 1952, 1987, Orzolek 1981, Pacific Rural Press 1920, 1921, Page 1976, Parkin 1928a, b, Parkinson 1951, Parsons 1971, Pearson 1958, Pedaja 1961, Peirce 1987, Pennell 1978, Perron 1922, Persson 1975, 1978, 1979, Petersone 1972, Pillsbury 1960, Quinn 1883, Reinecke 1955, Riker 1975, Ritchie 1928, Robb 1952, Robinson 1948, Rockwell 1945b, Roeder 1948, Rogers 1839, Romanowski 1980, Ross 1921,

CULTURE - GENERAL PRACTICES (Culinary species) (Cont'd)

Rowland 1969, Rozov 1976a, b, 1977, Rural New Yorker 1898a, Savage 1974, Sazonova 1977, Schermerhorn 1949, 1950, Schimdt 1916, Schmidt 1948, Schubeler 1854, Schuphan 1944, Sebelien 1923, Shaw 1882, Shewell-Cooper 1947, 1949a, c, 1950, Shoemaker 1939, Siesto 1958, Silva 1973, Silova 1964, Silveira 1951, Simons 1943, 1949, Skalweit 1906, Sluis 1953, Smith 1937, Snyder 1940, Somos 1975, South Africa Dept. Agr. 1924, 1945, Splittstoesser 1979, Stahl 1917, 1921, Statens Forsogsvirksomhed; Plantekultur 1944, Stevens 1944, Stewart 1956b, Stienstra 1957, Sutherland 1980, Tallarico 1955, Tasker 1952, 1953, Taylor 1944, 1981, Terry 1927, Tesche 1929, Thomas 1918, Thompson 1894, 1949, 1957, Tiebout 1941, Tiedjens 1950, Tiessen 1965, Tindall 1968, Tompkins 1972, 1977, Tompkins and Dodge 1966, Tompson 1922, Tracey 1956, Trebukhina 1964, Tschirch 1927, Tuinderij 1973, Tulecke 1965, Turner 1938, Turner 1978, Tuza 1977, Veken 1960, Verbruggen 1950, Victoria Dept. Agr. 1924, Vilmorin-Audrieux 1883, 1885, 1925, Wacker 1976, Waid 1921, Walker 1905, Wallace 1980, Wallaces Farmer 1934, 1936, Wallach 1941, Warford 1929, 1935, Washington State Univ. 1969, Watts 1922, Weaver 1927, Webb 1980, Wells 1983, Wester 1976, Whittle 1984, Whitwell 1978, 1979, Wiebe 1969b, Wigman 1918, Wilhelm 1948, Williams 1974, Witter 1960, Wohlers 1954, Work 1917, Wott 1977, Wright, M. 1984, Wright, P. 1946a, b, 1948b, Zastrovskaya 1974, Zandstra 1982

GENERAL PRACTICES (Medicinal species: *Rheum palmatum*, *R. officinale*, *R. tataricum*, etc.)

Abrial 1925, 1928, Am. Inst. of Hom. 1964, Angewandte Botanik 1924, Appl 1925, Boshart 1927, Box 1945, Buitenpost 1949, 1960, Cattornini 1947, Coiciu (no date), Collin 1871, De Lunel 1792, D'Amico 1950, Dijkstra 1943, Fordyce 1792, Gaw 1949, Gomez 1944, Heeger 1947, 1950, 1956, Heil und Gewurzpfl. 1921, Henry 1889, Herisset 1967, Holmes 1877a, Hubik 1979, Joachimovitz 1924b, Kashkarova 1963, Krainskii 1903, Krober 1921a, b, 1922a, b, Lendner 1936, Loudon 1830, 1860, Maurin 1933, Mawe 1778, Mesa 1951, Mihilea 1963, Mitsuhashi 1967, Musy 1925, Paris 1963, Perrot 1947, Pharm. Monatsh. 1924, Potlog 1940, Regel 1882, Risi 1940, Ross 1919a, b, 1921, 1923, Rostek 1926, Schenk 1919, Schick 1957, Schratz 1953, Schrotter 1918, Semmel 1918, 1919/1920, 1922, Siegfried 1943, Stauffer 1864, Tschirch 1904a, b, c, 1916, 1918, 1919, 1926, 1932, 1935, Tschirch and Dye 1904, Tschirch and Eijken 1904a, b, Tschirch and Heuberger 1902, Tuinbouwgewassen 1964, 1965, Usher 1867, Van Der Slikke 1943, Wachter 1924, Wallach 1941, Wilson 1910, Wigman 1913, Workman 1959

SPACING

Buitenpost 1960, Case 1965, 1969, Cline 1965, Great Lakes Veg. Growers News 1980, 1981a, b, 1983, Grower 1970a, Loughton 1960, 1966, Marshall 1983, Min. of Agr. Fish. Food 1984, Min. of Agr. Food 1981, Nat. Agr. Adv. Service 1970, Quarrell 1946, Sandsted 1980, Smith 1956, Stockbridge House Exp. Hort. Sta. 1959, 1960, 1973, Tiessen 1965, Tompkins 1966b, 1967a, 1968b, Wallace 1980

TUNNEL -- See FORCING - OUTDOOR FORCING UNDER PLASTIC FILM

CURCULIO -- see PESTS - INSECTA - Coleoptera - *Lixus concavus* Say

CYTOTAXONOMY -- See TAXONOMY

CYTOLOGY -- See TAXONOMY

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DECORATIVE USES

Baldrati 1953, Gardeners' Monthly and Horticulturist 1881, 1882, House Beautiful 1959, Otto 1843

DEFLOWERING -- See BOLTING

DENTAL EFFECT OF DIETARY OXALATE -- See OXALIC ACID - INGESTION - Non-Poisonous - Dental Effects

DETOXIFICATION OF OXALIC ACID -- See OXALIC ACID - REMOVAL

DIANTHRONES -- See COMPOSITION - CHEMICAL - Dianthrone

DIETARY CONSIDERATIONS -- Also see APPETITE DEPRESSANTS; COMPOSITION - NUTRITIONAL, - PHYSICAL; OXALIC ACID - INGESTION - Non-Poisonous - General Dietary Effects, - Poisonous - Man
Katan 1982, USDA 1912

DIHYDROANTHRAQUINONES -- See COMPOSITION - CHEMICAL - Anthraquinones

DIMENSIONS (Leaf, Petiole) -- See PHYSICAL CHARACTERISTICS

DISCOLORATION PREVENTION -- See OXALIC ACID - USE AS AN ANTIOXIDATION AGENT

DISEASE CONTROL

Grafius 1987, Leukel 1953, Min. of Agr. Food 1981, Murakishi 1957, 1958, 1961, Romanowski 1980, Sandsted 1980

DISEASES

BACTERIAL

Agrobacterium tumefaciens (E. F. Sm. and Town.) Conn. - Crown gall -- Also see *Phytopomonas tumefaciens*

Conroy 1952, Creelman 1962, Dingley 1969, Frauenstein 1976, Horst 1979, Klinkowski 1976, Levine 1947, Toms 1964, USDA 1960

Aplanobacter rhapontici (Millard) Elliott -- Also see *Erwinia rhapontici*
Bradbury 1977, White 1936

Bacillus rhaponticum (Millard) White -- Also see *Erwinia rhapontici*
Bradbury 1977

Bacterium carotovorum (L. R. Jones) Lehmann and Neuman -- See *Erwinia rhapontici*

Bacterium rhaponticum (Millard) Dows. -- Also see *Erwinia rhapontici*
Bradbury 1977, Commonwealth Mycol. Inst. 1948, Connors 1935, 1936, 1937, 1938, 1939, 1940, 1941, Dowson 1941, Green 1942, Horst 1979, Jorstad 1928, Metcalfe 1940, Millard 1924, Min. of Agr. Fish. 1935, Moore 1943, Plant Disease Survey 1920, White 1933, 1935, 1936, Williams 1937

Bacterium solanacearum
Hall 1925

DISEASES - BACTERIAL (Cont'd)

Erwinia carotovora (L. R. Jones) Bergey et al. var. *rhapontici* (Millard) Dye --
Bacterial crown rot and bacterial soft rot -- Also see *Erwinia rhapontici*, *Pecto bacterium carotovorum*

Bradbury 1977, Clark 1962, Dowson 1941, Horst 1979, Moline 1987, USDA 1960

Erwinia rhapontici (Millard) Burkh. (Syn, *E. carotovora* var. *rhapontici* (Millard) Dye) -- Also see *Aplanobacter rhapontici*, *Bacillus rhaponticum*, *Bacterium carotovorum*, *rhaponticum*, *Erwinia carotovora*, *Pecto bacterium rhapontici*, *Phytomonas rhapontici*, *Pseudo bacterium rhapontici*

Bradbury 1977, Clark 1962, Connors 1935, 1936, 1937, 1938, 1939, 1940, 1941, Gault 1956, Frauenstein 1976, Letal 1976, Millard 1924, Min. of Agr. Fish. Food 1969, Moline 1987, Plant Disease Survey 1920, Sellwood 1978, USDA 1960

General (BACTERIAL)

Peterkin 1981

Pecto bacterium carotovorum (L. R. Jones) Waldee -- See *Erwinia carotovora*

Pecto bacterium rhapontici (Millard) Patel and Kullcarni -- See *Erwinia rhapontici*

Phytomonas rhapontici (Millard) -- Also see *Erwinia rhapontici*

Bradbury 1977

Pytomonas tumefaciens (E. F. Sm. and Town.) Bergey et al. -- Also see *Agrobacterium tumefaciens*

Brien 1942, Creelman 1962, Connors 1937, Toms 1964

Pseudo bacterium rhapontici (Millard) Krasil'nikov -- Also see *Erwinia rhapontici*

Bradbury 1977

Pseudomonas marginalis (Brown) Stevens - Stem rot, leaf rot

Clark 1962, West of Scotland Agr. College 1961

Pseudomonas solanacearum E. F. Sm.

Clark 1962

Pseudomonas tumefaciens (E. F. Sm. and Town.) Dug. - Crown gall

Connors 1935, Creelman 1962, Muncie 1930

FUNGAL

Aecidium rubellum Pers. - Rust. The aecial stage of *Puccinia phragmitis*

Doidge 1924

Alternaria sp.

Mitchell 1978

Alternaria tenuissima (Kunze) Wiltshire - Secondary leaf and stalk rot

Connors 1940, Horst 1979, Mauritius Dept. Agr. 1961, USDA 1960

Aphanomyces cochlioides Drechs. - Damping-off

Lewis 1971

Armillaria mella (Vahl.) Kumm. - Root rot, foot rot, honey rot, oak-root fungus,

DISEASES - FUNGAL (Cont'd)

Amillaria root rot

Beattie 1937a, Green 1942, Harrington 1957, Horst 1979, Kennelly 1947,
Mellard 1978, Mitchell 1978, Moore 1943, USDA 1960

Ascochyta rhei Ellis and Everh. - Leaf spot -- Also see *Phyllosticta rhei*

Chupp 1950, Combs 1971, Conners 1934, 1935, 1936, 1937, 1939, 1940, 1941, Creelman
1964, 1965, Dingley 1969, Grafius 1987, Horst 1979, Johnston 1957, Kircher 1920,
Letham 1981, Mitchell 1978, Plant Disease Survey 1920, Ramsey 1944, 1959, Sandsted
1980, Stepanova 1974, Umgelter 1969, USDA 1960

Ascochyta rheicola Sawada

Sawada 1958

Ascochyta rumicola Stepanova

Stepanova 1971

Botrytis cinerea Pers. ex Pers. - Gray-mold rot, leaf rot

Anderson 1924, Banescu 1961, Case 1964, Clark 1962, Conners 1936, 1938,
Creelman 1962, 1965, Grafius 1987, Green 1942, Horst 1979, Jorstad 1928,
Kennelly 1947, Kircher 1920, Leendertz 1920, Mitchell 1978, Moline 1987, Moore
1943, Murakishi 1957, 1958, Ramsey 1944, 1959, Rushmore 1961, Tompkins and
Gabrielson 1966, USDA 1960, Wells 1978

Cercospora sp. - Leaf spot

Horst 1979, Ramsey 1944, 1959a, USDA 1960

Cercospora rhapontici Tehon and Daniels

Horst 1979, Mitchell 1978, Tehon 1925, USDA 1960

Cladosporium sp. (*C. herbarum* L (Pers.) Link) - Secondary leaf & stalk spot

Horst 1979, USDA 1960

Cladosporium herbarum (Pers.) Link

Mitchell 1978

Colletotrichum capsici (Syd.) E. J. Balter + Bisby

Wallace 1947

Colletotrichum dematium (Pers.) Grove -- See *Colletotrichum erumpens* Sacc.

Colletotrichum erumpens Sacc. - Anthracnose, stalk rot

Agr. Gaz. 1961, Banescu 1981, Conners 1936, 1937, 1939, 1941, Horst 1979, Mitchell
1978, Moline 1987, Plant Dis. Survey 1920, Ramsey 1944, 1959, Rhodesian Min. of
Agr. 1965, Schmidt 1958, Schreier 1958, Stevens 1919, Toms 1964, USDA 1960

Corticium centrifugum (Lev.) Bres.

Watanabe 1935

Corticium solani, *C. vayum* var. *solani* Berk. and Curt. -- See *Thanetophorus*
cucumeris or *Rhizoctonia solani*

Cylindrocarpon destructans (Zins.) Scholten

Cook 1973

DISEASES - FUNGAL (Cont'd)

(=*Cylindrocarpon radicum*) Wollenw.

Cook 1973

Cylindrocladiella parva (P. J. Anderson) Boesewinkel

Rainbow 1981

Erysiphe polyoni DC

Creelman 1964

Fungi imperfecti

Sawada 1958

Fusarium anguioides Sherb. -- See *Fusarium avenaceum*

Fusarium avenaceum (Fr.) Sacc

Jamalainen 1943, 1944

Fusarium sp.

Mitchell 1978, USDA 1960

=*Fusarium niveum* E. F. Sm.

Anderson 1934

Fusarium oxysporum Schlechtend. f.s.p. *Niveum* (E. F. Sm.) Snyder & Hansen

General (FUNGAL)

Agr. Gaz. 1953, 1961, Banescu 1961, Barnett 1943, Barrett 1942, Boesewinkel 1977, Campbell 1952, Canada Dept. of Agr. 1959, Cotton 1921, Garbowski 1933, Hartman 1942, Heald 1931, Jorstad 1928, Kaarep 1957, Klinkowski 1976, Mack 1956, Miczynska 1966, New South Wales 1953, 1959, 1960, Reinmuth 1934, Schmidt 1958, Tolsma 1959, Tompkins 1977, Victoria Dept. Agr. 1943

Glomerella cingulata (Stonem.) Spauld. and Schrenk - Leaf spot

Mauritius Dept. of Agr. 1961

Helicobasidium purpureum Pat. (Syn. *Rhizoctonia crocorum*) (Pers.) DC. - Violet root rot

Min. of Agr., Fish. Food 1967b

Macrophoma straminella (Bres.) Died. -- See *Phyllosticta straminella*

Nectria radicum Gerlach and Nilsson

Cook 1973

(=*Pellicularia filamentosa* (Pat.) Rogers) - Crown rot -- Also see *Corticium solani*, *Rhizoctonia* sp.,

Peronospora jaapiana P. Magnus - Downy mildew

Agr. Gaz. 1950, 1960, Birmingham 1925, Francis 1981, Jorstad 1924, 1928, Kaarep 1957, Kirchner 1920, Kochman 1935, Letham 1981, Magnus 1910, Mitchell 1978, New South Wales 1925, 1960, 1961, Tanaka 1934, Victoria Dept. of Agr. 1943

Peronospora rumicis Corda - Downy mildew

Horst 1979, USDA 1960

DISEASES - FUNGAL (Cont'd)

Peronospora polygoni Thuemen (ex A. Fisch.)

Francis 1981

Phialophora

Rainbow 1981

Rhizoctonia solani Kuhn

Dingley 1969

Phoma herbarum Westend.

Conners 1940, Mitchell 1978

Phoma rheina Thuem. et Boll.

Kircher 1920

Phyllosticta rhei Ellis and Everh. -- Also see *Ascochyta rhei*

Kircher 1920

Phyllosticta straminella Bres. Stem spot and leaf spot

Agr. Gaz. 1960, Anastoff 1932, Barnett 1943, Chupp 1950, Conners 1935, 1936, 1937, 1938, 1939, 1940, Mitchell 1978, Moline 1987, New South Wales 1960, 1961, Ramsey 1944, 1959, Smith 1934, Stevens 1919, USDA 1960

Phymatotrichopsis omnivorum (Duggar) Hennebert - Root rot

Horst 1979, Leonian 1926, Mitchell 1978, USDA 1960

Phytophthora cactorum (Lebert + Cohn) Schroet. - Root rot, crown rot

Beach 1922, 1923, 1924, 1925, 1926, Horst 1979, Jones 1928, Mitchell 1978, Nienhaus 1959, Ramsey 1944, 1959, USDA 1960

Phytophthora parasitica Dastur - Root rot, crown rot

Agr. Gaz. 1943, 1960, Anderson 1934, Beach 1924, Doidge 1924, Felix 1953a, 1953b, Godfrey 1923, Hopkins 1931, Horst 1979, Leonian 1926, Letham 1981, Mitchell 1978, New South Wales 1953, 1960, Ramsey 1944, 1959, University of Tennessee 1942, 1961, Tucker 1931, 1933a, 1933b, 1935, USDA 1960, Wager 1931, 1932, 1935, 1940,

Phytophthora nicotianae Breda de Hann

Barrett, 1927, Beach 1921, Combs 1971, Harrington 1957, Leonian 1926, Moline 1987, Noviello 1965, Ramsey 1944, 1959, USDA 1960

Phytophthora sp. - Root rot, crown rot, phytophthora rot -- See *Phytophthora*

nicotianae Breda de Hann

Phytophthora terrestris Sherb.

Mitchell 1978, Plant Disease Bulletin 1921

Puccinia phragmitis (Schum.) Koern. - Rust.

Arthur 1902, Barnett 1943, Baxter 1958, Conners 1940, 1941, Gram 1927, Horst 1979, Kaarep 1957, Kircher 1920, Mitchell 1978, Moore 1943, USDA 1960, Valder 1952

Puccinia rhei-undulati Hiratsuka

Agr. Gaz. 1953, 1960, Cunningham 1945, Dingley 1969, Hiratsuka 1935, New South Wales 1960, 1961, Valder 1952

DISEASES - FUNGAL (Cont'd)

Pythium sp. - Crown rot, damping-off, root rot. -- Also see *P. anandrum*

Arthur 1902, Drechsler 1930, 1939, Harrington 1957, Horst 1979, USDA 1960

Pythium anandrum Drechsler - Root rot, crown rot, damping-off

Drechsler 1930, 1939, Middleton 1941, 1943, 1947, Mitchell 1978, USDA 1960

Pythium irregulare Buis. - Damping-off, crown rot, root rot

Mitchell 1978, USDA 1960

Pythium oligandrum Drechs. - Damping-off, root rot, crown rot

Drechsler 1930, Middleton 1941, 1943, 1947, Mitchell 1978, USDA 1960

Pythium splendens Braun - Damping off, root rot, crown rot

Mitchell 1978, USDA 1960

Pythium ultimum Trow - Damping-off, root rot, crown rot

Middleton 1941, 1943, 1947, Ramsey 1944, 1959, Wager 1932, 1940, USDA 1960

Ramularia rhei Allescher - Leaf-spot, leaf and stalk spot

Connors 1936, Grafius 1987, Green 1942, Harrington 1957, Horst 1979, Jorstad 1928, Kennelly 1947, Kircher 1920, Mitchell 1978, Ormrod 1985, Schmidt 1958, Schreier 1958, USDA 1960

Rhizoctonia sp. - Crown rot, stem rot

Clinton 1905, Combs 1971, Duggar 1901

Rhizoctonia solani Kuehn - Root rot -- Also see teleomorph *Thanetophorus cucumeris*

Horst 1979, Mitchell 1978, USDA 1960.

Rhizoctonia violacea Tul. - Violet root rot

Gleisberg 1932

Sclerotium rolfsii Sacc. - Southern blight, *Sclerotium* stem and stalk rot

Agr. Gaz. 1960, Birmingham 1924, Horst 1979, Letham 1981, Magee 1947, New South Wales 1961, USDA 1960

Septoria rechingeri Petr.

Rechinger 1939

Septoria rhaponticae Thuem. - Leaf spot

Horst 1979, Kircher 1920, Mitchell 1978, USDA 1960

Thanetophorus cucumeris (A. B. Frank) Donk

Houston 1945, Ramsey 1944, 1959

Uredo rhei-undulati Diet. - Rust

Cunningham 1945, Dietel 1906, Madej 1964

Unidentified Fungi

Cormack 1952, Cunningham 1942, Murakishi 1960, 1961, Noviello 1965

Unidentified Fungi: Red leaf

Alberta Dept. of Agr. 1965, Allen 1959, Anderson 1952, Carlberg 1976, Creelman 1964, Manitoba 1953, 1956, 1961, Simmonds 1954, Walkof 1956, Wright 1945, 1948b

DISEASES - FUNGAL (Cont'd)

Verticillium albo-atrum Reinke + Berth. - *Verticillium wilt*

Harrington 1957, McKay 1945, Wilhelm 1955, Wormald 1928, 1929

GENERAL

Agr. Gaz. 1953, 1961, Barnett 1943, Boesewinkel 1977, Cheshunt Exp. Res. Sta. 1937, Connors 1967, Garbowski 1933, Jorstad 1928, Kaarep 1957, Mack 1956, Miczynska 1966, New South Wales 1953, 1959, 1960, Tompkins 1977, Victoria Dept. Agr. 1943, Whitwell 1978

PHYSIOLOGICAL DISORDERS

Air Pollution Damage

Harrington 1957, Potter 1960

Boron Deficiency - Crack-stem, black tip, black top

Agafonova 1957, Horst 1979, USDA 1960

Calcium Related

Scaife 1978

Frost Damage

Connors 1936, 1937, Creelman 1962

Leaf Tip Burn

Scaife 1978

VIRAL

Annulus

Yale 1954

Arabis Mosaic Virus

Cadman 1960, Loughton 1966, Neely 1980, Novak 1982, Schade 1962a, Schmelzer 1963, Tomlinson 1966, 1967a

Cherry Leaf Roll Virus

Jones 1973, 1976, 1980, Loughton 1966, Massalski 1986, Neely 1980, Tomlinson 1966, 1967a, 1967b, Walkey, Stace-Smith 1973

Cucumber Mosaic Virus

Neely 1980, Tomlinson 1966, 1967a

General (Viral)

Agr. Gaz. 1953, 1961, Barnett 1943, Case 1963, 1966, Channon 1955, 1956, Delaney 1974, 1981, Garbowski 1933, Hoof 1956, 1957, Jones 1972, 1980, Jorstad 1928, J. of Hort. Science 1972, Kaarep 1957, Keyworth 1969, Kochman 1957, 1958, Linden 1961, Mack 1956, MacLachlan 1958, 1960, Miczynska 1966, Minister of Agr 1959, Nat. Veg. Res. Sta. 1972, New South Wales 1953, 1959, 1960, Paludan 1972, Schade 1961, 1962b, Tolsma 1959, Tomlinson 1963, 1964, 1965, 1966, 1967a, b, 1968, Tompkins 1977, Van Hoof 1956, Victoria Dept. Agr. 1943, Walkey 1968b, Walkey and Cooper 1972a, b, 1974, Walkey and Dance 1965, 1978, Walkey, Dance, et al. 1979, Walkey and Neely 1981, Walkey, Webb, et al. 1985, Walkey, Bolland, et al. 1984, 1986, Walkey, Creed, et al. 1978, 1982

DISEASES - VIRAL (Cont'd)

Marmor brassicae (Holmes) - Turnip Mosaic Virus

Horst 1979, Keyworth 1964, Loughton 1966, Schade 1959, Stace-Smith 1966, Tomlinson 1964, 1965, 1966, 1967a, 1967b, USDA 1960, Vancouver Res. Sta. 1967, Verhoyen 1972

Marmor rhei - Rhubarb Mosaic Virus

Connors 1936, Cunningham 1947, Frauenstein 1976, Klinkowski 1957a, 1957b, 1959, New Zealand Dept. Sci. 1941, 1947, Rheinische Monatsschrift 1963, USDA 1960

Ring Spot Virus

Schmelzer 1963, USDA 1960, Yale 1954

Ruga verrucosans (Carsner and Bennett, Beta virus IK.M.Sm.) - Beet curly top virus

Horst 1979, USDA 1960, Vaughan 1953

Rhubarb Chlorotic Ring

Horst 1979

Rhubarb Mosaic

Chamberlain 1954, Cunningham 1947, Dickson 1925, Dingley 1969, Klinkowski 1957a, b, Kochman 1957, Kristensen 1957, 1963, 1970, Schade 1960, USDA 1960

Strawberry Latent Ringspot Virus

Tomlinson 1966, 1967a, b

Streak

Connors 1935, 1937, 1938, 1941

Tobacco Necrosis Virus

Kristensen 1963, Tidsskrift for Planteavl 1963

Tobacco Rattle Virus

Lister 1960

Virus-free Rhubarb -- See PROPAGATION - RAPID VEGETATIVE

Witches Broom

Connors 1937

DISSERTATIONS -- See THESES

DORMANCY -- See PHYSIODORMANCY

DRUG -- See PHARMACOGNOSY, PHARMACOLOGY

DRUG CONTAMINATION

Schilcher 1970, Westwood 1972

DRYING

Gardeners' Monthly 1861b, Gorodnichev 1973, 1975, Pabis 1965, Pahlow 1938, Rosenthaler 1914

DYES (Also see COMPOSITION - CHEMICAL - Alizarin, COLOR)

Brandes 1834, Henry 1822, Karki 1978, Manier 1985, Mell 1935, Peretti 1828, Stuart 1979, Thum 1913, Tyhsen 1798, Vaudin 1826a

-E-

ECONOMICS

Zanten 1959

EDUCATION -- See BOOKS, BULLETINS, THESES

EMODIN -- See COMPOSITION - CHEMICAL - Anthraquinones

ENVIRONMENTAL POLLUTION

AIRBORNE

Potter 1960

METALLIC - Aluminum, cadmium, chromium, copper, lead, manganese, molybdenum, nickel, zinc

Bertrand 1931, Domling 1979, Koning 1981, MacLean 1973, McMurtrey 1953, Pfeilsticker 1975, 1979, Prasad 1978, Raj 1980, Sherlock 1983, Shivas 1980, Smart 1985, Thomas 1973, Tiller 1976, 1977, Trapp 1981, Valenti 1984

PESTICIDES -- See PESTICIDE RESIDUES

ETHERIZATION

Hepler 1922, 1928, Reed 1912, Smith 1899, Stuart 1904, USDA 1905, Warren 1907

ETHREL -- See ETHYLENE

ETHYLENE, ETHREL

Bjornseth 1946b, Delaney 1975, Diol 1933, Nat. Veg. Res. Sta. 1972, Thomas 1976, Thomas and Bleasdale 1973, Wilde 1968, 1971

-F-

FALSE RHUBARB -- Monk's Rhubarb, passion dock, patience dock = *Rumex patientia* L., Wild Rhubarb = *Polygonum alpinum*

Univ. of Alaska 1965, Britten 1886, Heller 1976, Karpushkin 1980, Parkinson 1640, Fluck 1973, Halle 1794, Medsger 1957, Mitchell 1978, Ray 1686, Rhind 1870

FAT CONTENT -- See COMPOSITION - PHYSICAL

FERTILIZATION

CHEMICAL

Agafonova 1955, Balazs 1973, Beattie 1937a, Becker-Dillingen 1938, Benson 1917, Boswell 1954, Brauer 1957, Brooks 1905, 1906, 1907, 1908, Carlberg 1976, Case 1964, 1965, 1966, Chipman 1978, Cline 1962, 1965, 1966, Univ. of Delaware 1979, Forest 1956, 1957, 1958, 1959, Fry 1957, The Furrow 1985, Gardeners' Chronicle 1965, Gerber 1985, Groven 1959, Hesel 1981, Knott 1955, Loughton 1959, 1960, 1961b, 1962, 1966, Maynard 1976, Mellard 1978, Minard 1978, Min. of Agr., Fish. Food 1968, 1978a, 1981, Mosley 1975, Nicklow 1970, Ontario Dept. Agr. 1965, Romanowski 1980, Sandsted 1980, Smith 1956, 1964a, Summers 1901, Tiessen 1964, 1965, Tompkins 1966b, Vaus 1969, Washington State Univ. 1960a, b, Wiebe 1964, Winans 1899, Wott 1977

ORGANIC (Manurial)

Balazs 1973, Becker-Dilligen 1938, Begg 1963, Benson 1917, Boswell 1954, Brauer

FERTILIZATION - ORGANIC (Cont'd)

1957, Brooks 1905, 1906, 1907, 1908, 1910, Min. of Agr., Fish. Food 1968a, Paisley 1952, Stockbridge House Exp. Sta. 1959, 1960, 1973

FIBER CONTENT -- See COMPOSITION - PHYSICAL

FLAVONOIDS -- See COMPOSITION - CHEMICAL - Flavonoids

FLUORESCENCE

Maheu 1928

FLOWER REMOVAL -- See BOLTING

FLOWERING -- See BOLTING

FODDER or FORAGE -- See OXALIC ACID - INGESTION - Non-Poisonous

FORCING (Also see ETHERIZATION)

CONVENTIONAL INDOOR

Auton 1928a, b, c, d, Bailey K. 1956a, b, Bailey L. 1902, 1943, Bakker 1985, Beattie 1937b, Becker-Dillingen 1956, Bleasdale 1962, 1963, Boos 1962, Boswell 1954, Bouquet 1931, 1932, Bowman 1920, Bradley 1972, Bromley 1954, Brook 1951, Buist 1855, Card 1899, Carew 1958, Case 1964, 1965, 1966, 1967, 1968, Chipman 1969, 1973, 1974, 1975, 1978, Chorlton 1858, Clarke 1926, Clayton 1896, The Country Gentleman 1918, Czuchna 1977, Dantler (no date), Delaney 1976, 1977, 1978a, 1979, Dickson 1962, 1964, 1965, F., G. B. 1917, Falconer 1929, Farrington 1919, Flawn 1950, Fraser 1948, Fraser 1966a, French 1907, Frenz 1977, Fruit Grower 1916, Fry 1957, J. G. 1943, Garden and Forest 1894a, Gardener's Monthly 1866, Geloso 1955, Giles 1970, Groente en Fruit 1974, Grower 1960b, 1966, 1978, Hahn 1943, Hammersly 1913 Hardy 1928, 1948, Hasselberg 1949, Hemphill 1985, Hepler 1922, Hermans 1986, Hibberd 1893, Hobson 1899, Horticultarist 1849a, b, 1852a, b, Hort. Edn. Assoc. 1953, J. of Hort. and Cottage Gardener 1899a, 1901, Hunn 1901, Hunt 1916, Ibbotson 1961, James 1915b, Karsten 1969, 1970, 1971, 1972, 1973, Kennelly 1947, 1954, 1960, Kerr 1917, Kers 1956, King 1959, Kirkpatrick 1916, Kmiecik 1974b, Knight 1820, Knott 1955, Komarova 1970, Krause 1955, Krause 1967, Lazenby 1905, Loughton 1951, 1960a, 1961a, 1969a, M., J. E. 1898a, b, Mack 1956, MacLennan 1930, MacSelf 1939, Market Growers J. 1921, 1957, Marshall 1949, Masson 1960, Melchers 1924, Melville 1948, Memoria Technica 1975, Miller 1898, Min. of Agr, Fish. Food 1978b, 1984, Missouri College of Agr. 1915, Moen 1926, Norman 1979, Nova Scotia Res. Sta. 1974, 1975, Obolensky 1960, Ontario Dept. Agr. 1952a, b, 1964a, b, 1965a, b, 1966, 1969, 1970a, 1971, Orton 1930, Osara 1966a, 1966b, Paul 1916, Petts 1904, Quinn 1883, Randle 1949, Richman 1930, Riedinger 1917, Robinson 1945a, 1945b, 1946, 1947, Rockwell 1944, 1945a, Rogers 1839, Rosa 1917, Rural New Yorker 1898b, c, Rowland 1969, Rural New Yorker 1899b, c, Rutherford 1975, 1976, 1977, Sayre 1927, Scott 1894, 1904, Seaton 1938, Sheppard 1919, Shewell-Cooper 1946, 1949b, 1972, Shoemaker 1947, Sidwell 1947, Simons 1943, 1949, Smith 1821, 1899, 1937, 1953, 1960, Smithmeyer 1949, Snyder 1940, Stewart 1956a, Stockbridge House Exp. Hort. Sta. 1971, 1973, 1975, 1978, 1979, 1982, Tapley 1935, Temple 1887, Terry 1927, Thompson 1949, Thuesen 1973, 1981, 1982a, b, Tidsskrift for Planteavl 1944, Tiessen 1964, Tompkins 1966a, b, 1967b, 1968a, 1969, 1972, 1977, Tompkins and Dodge 1966, Truscott 1961, Tuinderij 1973, Umoselle 1923, Verhoef 1961, Watts 1920, Whillis 1949, Whitehead 1944, Whitwell 1979, 1983, 1984, Wiebe 1962, 1966c, Willis 1932, Work 1950, Wott 1977

HOUSE DESIGN

Bailey 1955, 1956b, Beattie 1937b, Bleasdale 1967, Boswell 1954, Canada Farm Building Plan Service 1973, Carew 1958, Loughton 1961, 1969a, Min. of Agr., Fish. Food 1971, Tompkins 1972, Tuinbouwtechniek 1966

FORCING (Cont'd)

LIGHTING

Bleasdale 1967, Bouquet 1932, Canham 1966, 1967, 1968a, b, 1969a, 1969b, Case 1964, 1967, 1969, Chipman 1964, Dullforce 1975, Gardeners Chronicle 1965, Graefe 1956, Nat. Agr. Advisory Service 1970, Nova Scotia Res. Sta. 1965

OUTDOOR FORCING

Bouquet 1946, Carew 1961, Delaney 1979, Grainger 1933, Hare 1816, Hemphill 1985, The Horticulturist and J. of Art & Rural Taste 1846, Judd 1820, Ontario Dept. Agr. 1961, Robinson 1945a, b, 1946, 1947,

OUTDOOR FORCING UNDER PLASTIC FILM (Also see MULCH - PLASTIC)

Appleton 1972, Bakker 1985, Bradley 1972, Case 1965, Heinen 1972, 1975, Mehwald 1977, Memoria Technica 1975, Nova Scotia Res. Sta. 1975, Oregon Agr. Exp. Sta. 1978, Ruitter 1971, Seitz 1972, 1974a, b, Shehepetkov 1975, Stockbridge House Exp. Hort. Sta. 1972, Tuinbouwtechniek 1966, Vleutens Proeftuin 1969, Vogel 1963a, b

WARM CLIMATE OUTDOOR FORGING -- See CULTURE - ANNUAL (Production in warm climates)

FORAGE USE OF LEAVES -- See LEAVES

FRAGRANCES -- See PERFUMES

FREEZING -- See PREPARATION/PRESERVATION

FROST DAMAGE

Green 1942, Kennelly 1947, 1960

- G -

GALLIC ACID -- See COMPOSITION - CHEMICAL - Tannins

GASTROPEDA GARDEN SLUG -- See PESTS

GARDENING -- See CULTURE - GENERAL PRACTICES (Culinary species)

GIBBERELIC ACID (Also see PHYSIODORMANCY)

Agr. Res. Inst. of Ontario 1970, Alkmaar Res. Sta. 1970, Bleasdale 1959, Case 1967, 1968, 1969a, b, 1970a, 1971a, b, Chipman 1968, Commercial Grower 1968, Gardeners Chronicle and New Hort. 1969, Great Lakes Veg. Growers News 1971, Groenten en Fruit 1971, Gunning 1961, Hemphill 1985, Hermans 1986, I. C. I. 1967, Istituto di Ort. e Flor. 1972, Karsten 1969, 1970, 1971, Kepkova 1960, Kirmura 1965, 1967, 1968, Krause 1967, Laban 1968, Laban and Vander Ven. 1968, Loughton 1969a, b, 1970a, Nat. Agr. Advisory Service 1970, New Scientist 1968, Ontario Dept. Agr. 1969, 1970a, 1971, Thomas 1976, Tompkins 1965, 1966a, b, c, e, 1968a, Washington State Univ. 1962, Wiebosch 1969, 1970, 1971, Wittwer 1957, 1958, 1968, 1974

GLUTAMIC ACID

Bell 1981

GLYCERATES -- See COMPOSITION - CHEMICAL - Anthraquinones

GLYCOSIDES -- See COMPOSITION - CHEMICAL - Anthraquinones

GLYPHOSPHATE -- See HERBICIDES

GRADING, PROCESSING AND MARKETING STANDARDS

Canadian Gov't Specifications Board 1970, Grange 1966, Howe 1964, 1967, Norwegian Standard 1976, University of Leeds 1970, USDA 1945, Washington Dept. of Agr. 1954

GRAY GARDEN SLUG -- See PESTS - MOLLUSKS - Gastropoda

GROWERS COOPERATIVE -- See MARKETING

GROWTH REGULATORS -- See ETHYLENE, GIBBERELIC ACID

-H-

HABITAT -- See HISTORY

HARVESTING

HAND

Mosley 1975, Packer 1985, Reichelt 1953, Tompkins 1972

MECHANICAL -- See MECHANIZATION - HARVEST

HEATING SOIL -- See SOILS

HEAVY METALS -- See ENVIRONMENTAL POLLUTION (Metallic)

HERBICIDES (For Biological Control -- See WEED CONTROL)

Agr. Dev. Advisory Service 1972, 1973a, 1981, Ahrens 1967, Alkmaar Res. Sta. 1960, 1963, Arthey 1968, Britz 1970, Biologische Bundesanstalt 1968, 1969, 1979, 1980, Buhl 1964, 1965, 1968, Bukin 1960, Bulinski 1972, Case 1968, 1970, Chroboczek 1970, Cox 1969, Creager 1985, Debelyi 1971, 1972, Delaney 1977, Dow Agrichem 1959, 1962, Fed. Register 1981, 1983, 1986, Freeman 1951, Fryer 1968, 1970, German Fed. Republic 1965, 1968, 1969, 1979, Hiller 1979, Lawson 1983, Marlow 1980, Mellard 1978, Michigan State Univ. 1962, Min. of Agr., Fish. Food 1966, 1981, Ontario Dept. Agr. 1966, Romanowski 1980, Siltanen 1982, Southwick 1959, Umgelter 1969, Vekshin 1976, Verlaat 1959, 1961, 1977, Whitwell 1978, Zschau 1968

HISTORY (Origin and/or habitat of rhubarb)

Abrahams 1971, Abulgasi-Bayadur 1726, Am. Inst. of Hom. 1964, Appleby 1982, Asiatic J. 1826, Bailey 1901, 1976, Baillon 1872, Barbot 1816, Bianchini 1975a, Blaeu 1655, Bland 1915, Blunt 1652, Bock 1577, Boerhaave 1710, Bois 1928, Boorde 1535, Boswell 1949, Brauton 1930, Bretschneider 1871, Brown 1923, Bryant 1783, Buckland 1975, Chemist and Druggist 1912, Chittenden 1951, Christison 1879, Claus 1956, Clepper 1982, Cobbett 1833, Coulter 1943, Coutela 1869, Datta 1945, DeVille 1689, DeVries 1907, Dick 1897, Dioscorides (2700 B.C.), 1516, 1529, 1558, 1610, 1655, 1830, Dittrich 1973, Dodoens 1554, 1586, Dossie 1782, Dowhan 1979, Dragendorff 1898, Duquenois 1973, Dymock 1892, Ellis 1789, Farre 1866, Fero 1866, Fluckiger 1891, Franklin 1770, Fraser 1966a, Foust 1969, 1983, 1988, Gammie 1894, Gardener 1971, Gardener's Chronicle 1895, Gardener's Monthly 1887b, Geldhof 1965, Georgeson 1919, Gerard 1597, 1633, German Federal Republic 1979, Gibault 1912, Gmelin 1752, Graham 1955a, c, Green 1823, Gronovius 1755, Guibourt 1838, 1876, Hallier 1864, Halpin 1978,

HISTORY (Cont'd)

Hamlin 1769, Hammer 1794, Hance 1875, Hartwich 1899, Haughton 1978, Hawks 1928, Hedrick 1950, Henry 1889, Heuberger 1902, Hill 1945, Hintze 1951, Histoires des Plantes de l'Europe 1719, Hoch 1951, Hollstein 1718, J. of Hort. 1914, J. of Hort. and Home Farmer 1909, Hope 1766, J. of Horticulture 1914, Hosseus 1911, 1912, Hummel 1958, Jaretsky 1928, John of Gaddeson 14th Century, Jones 1928, Kapoor 1961, Khaidarov 1973, Kirkby 1917, Klaproth 1826, Krantz 1938, Kreitner 1881, Lancet 1917a, Lauffer 1919, LaWall 1927, Lindley 1846, 1876, Loughton 1969a, Lowell 1822, Maimon 1968, Matthioli 1570, Martin 1984, Mayer 1880, Maximovicz 1875, Meijer 1969, Moeller 1899, Monandes 1596, Moorecroft 1916, Muller 1876, Munter 1877, Musy 1925, Nature 1917, The Numismatic Circular 1973, Ohsson, D'1834, Orth 1961, Osol 1947, Parkinson 1640, Peirce 1987, Pereira 1845, Phillips 1822, Planchon 1946, Plinius (no date), Poiret 1827, Pomet 1735, Pownall 1889a, Prooijen 1952, Przewalski 1882, Ray 1944, Regel 1875, 1878, Rhind 1870, Ritter 1832, Roi 1955, Rowland 1969, Royle 1827, 1856, Salmon 1710, Schlagintweit-Sakunlunski 1880, Schomburgk 1838, Schubeler 1854, Sci. Am. Supp. 1917, Simons 1943, Smith 1964, Smyth 1907, Snow 1924, Societe D'Hort. De Paris 1832, Sonnedecker 1963, Stearn 1974, Stephanitz 1838, Stuart 1979, Tafel 1908, Tiling 1679, Tournefort 1719, Trease 1972, 1978, Tschirch 1904a, 1907, 1916, 1923, Tschirch and Eijken 1904a, Turner 1938, Turrill 1936, USDA 1912, Usher 1867, Van Doren 1938, Vavilov 1931, Vekhov 1978, Warner 1967, Wedel 1708a, b, Werner 1877, Whitwell 1979, Willcox 1973, Wood 1912, Woodville 1832, Wright 1948a, Xiao 1984, Xrayser 1912, Zanda 1930

HYBRID VARIETIES -- See BREEDING

HYDROXYANTHRAQUINONES -- See COMPOSITION - CHEMICAL - Anthraquinones

HYDROXYCINNAMIC ACID -- See COMPOSITION - CHEMICAL - Hydroxycinnamic Acid

HYDROXYGLUTAMIC ACID -- See GLUTAMIC ACID

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ILLUSTRATIONS OF *Rheum* Flowers, etc. -- See TAXONOMY

INDUSTRIAL POLLUTION -- See ENVIRONMENTAL POLLUTION (Metallic)

INSECTS -- See PESTS - INSECTA

INSECT CONTROL -- See PEST CONTROL

INSPECTION -- See GRADING

IRRIGATION

Shoemaker 1947, Vaus 1969

IRON CONTENT -- See COMPOSITION - NUTRITIONAL

-J-

JUICES -- See PREPARATION/PRESERVATION - JUICES/WINES

-L-

LAXATIVE -- See PHARMACOGNOSY, PHARMACOLOGY

LEAD -- See ENVIRONMENTAL POLLUTION (Metallic)

LEAF SPOT -- See DISEASES - FUNGAL

LEAVES

DISEASES OF -- See DISEASES

POISONING -- See OXALIC ACID - INGESTION - Poisoning

USE AS FODDER -- See OXALIC ACID - INGESTION - Non-Poisonous

USE AS PEST CONTROL -- See PEST CONTROL

LIGHTING -- See FORCING - LIGHTING

LIXUS CONCAVUS -- See PESTS - INSECTA - Coleoptera

LIMING

Agafonova 1957, Min. of Agr. Fish Food 1978a

-M-

MALIC ACID -- See COMPOSITION - NUTRITIONAL

MANURING -- See FERTILIZATION - ORGANIC (Manurial)

MARKETING (and Cooperatives)

Adrian 1891, Alexandre 1716, Agr. Gaz. 1955, 1963, Bailey 1955, Bland 1915, Brehm 1916a, Bromley 1954, Brook 1951, Clepper 1982, Cook 1960, Eaton 1966, Fero 1866, Foust 1969, 1983, Giles 1970, 1974, The Grower 1960a, Harrington 1945, Hartwich 1904, Hilliker 1967, Howe 1968, Pharmaceutische Centralhalle 1888, University of Leeds 1970, McCoward 1956, Mercier 1961, New South Wales 1962, Rowland 1969, Trocke 1966,

MECHANIZATION

GENERAL

Meeldijk 1976

HARVEST

Great Lakes Veg. Growers News 1976a, b, c, 1980, 1981a, 1983, Kasmire 1983, Marshall 1978, 1984, 1986, Noyce 1977, 1978, Pierce 1978, Zandstra 1982

ROOT LIFTING

Commercial Grower 1970b, Grower 1970b, Meeldijk 1976, Smith 1962, Tuinderij 1973
MEDICINAL USAGE -- See PHARMACOGNOSY, PHARMACOLOGY

MEDICINE -- See PHARMACOGNOSY, PHARMACOLOGY

MERISTEN TIP CULTURE -- See PROPAGATION - Rapid vegetative

METHIOCARB -- See PESTICIDE RESIDUES

MICROBIOLOGICAL ANALYSIS -- See DISEASES - BACTERIAL - GENERAL

MINOR ELEMENT DEFICIENCIES -- See DISEASES - PHYSIOLOGICAL

MOLYBDENUM -- See ENVIRONMENTAL POLLUTION (Metallic)

MONK'S RHUBARB -- See FALSE RHUBARB

MORPHOLOGY

Borio 1958, Regel 1874, Schmitz 1874, Tschirch 1916, Tucakov 1968

MULCH

ORGANIC (Also See FERTILIZATION - ORGANIC (Manurial))

Sawdust

Chipman 1969

Vegetative (Straw, hay, etc.)

Case 1965, Quarrell 1946

PLASTIC (Sheet or foil)

Chipman 1974a, 1975, Nova Scotia Res. Sta. 1975, Seitz 1974a, b, 1972, Shchepetkov 1975

MUTAGENS -- See BREEDING

-N-

NEMATODES -- See PESTS - NEMATODES

NEUTRAL DETERGENT FIBER CONTENT (NDF) -- See COMPOSITION - PHYSICAL

NIACIN CONTENT -- See COMPOSITION - NUTRITIONAL

NITRATES -- See COMPOSITION - NUTRITIONAL

NOMENCLATURE -- See TAXONOMY

NUTRIENT REQUIREMENTS -- See FERTILIZATION

NUTRITIONAL CONTENT -- See COMPOSITION - NUTRITIONAL

-O-

ORGANIC ACIDS -- See COMPOSITION - NUTRITIONAL

ORIGIN -- See HISTORY, PHARMACOGNOSY

ORNAMENTAL USE -- See DECORATIVE USES

OXALATES -- See OXALIC ACID

OXALIC ACID

CONTENT and DETERMINATION

Adriaanse 1969, Allison 1966, Allsopp 1937, Am. Med. Assoc. 1917c, Angerhausen 1920a, Arbenz 1917, Becker 1964, Bentley 1937, Bouhon 1916, Castoro 1902, Connor 1977, Dobreanu 1983, Dumann 1980a, 1980b, Durham 1924, 1928, Ekbrant 1946, Esbach 1883, Grutz 1955, Herrmann 1972, Hesse 1980, Hodskinson 1981, Itallie 1917, Jablonowski 1964, Jeghers 1945, Kasidas 1980, Kingsbury 1969, Kmiecik 1974c, Kirkby 1917, Kochs 1929, Kohman 1939, Lassiagne 1818, 1819, Lehmann 1953, Libert 1980, 1981, 1982, 1984, 1985, 1986, 1986, 1987a, b, Libert, Creed 1985, Libert, Franceschi 1987, Libert, Larson, et al. 1988, Lindberg 1983, Majumder 1938, Mathot 1943, 1950, Mattsson 1981, Maue 1920, Myers 1947, Noetzel 1941, Nuss 1978, Oke 1969, Otto 1895, 1897, Ponert 1965, Prenen 1984, Pucher 1937b, Pyke 1972a, Sachse 1978, Sci. Am. 1917, Sci. Am. Supp. 1917, Schuphan 1948b, Shewfelt 1952, Strenge 1981, Treptow 1985a, b, Trommsdorff 1832, Tsakalotos 1919, Tschope 1981, Turner 1980, Vickery 1939, 1940, Widmark 1933, Zarembski 1962

INGESTION

NON-POISONOUS

Dental Effects

Denver Post 1982, Gortner 1946, Mathot 1950, McCay 1947, 1949, Science News Letter 1947

General Culinary Consumption & Dietary Consideration and Effects

Am. Med. Assoc. 1917d, Baldwin 1900, Barnes 1846, Barrett 1942, Forsyth 1846, 1847, Gardeners' Chronicle 1847c, 1899b, Jacob 1917, Mackenzie 1846, 1847, Martinson 1959, McLachlan 1899, O'Neill 1890, Parkin 1928, Smart 1985, Soc. d'Hort. de Paris 1832, Suckling 1974, Talapatra 1948, Tuba 1952, USDA 1917, Zarembski 1962

Use as Fodder or Forage

Butakov 1959, Mellard 1978, Schneider 1933, Sebelien 1923, Willaman 1948, Wilson 1946

POISONOUS (or very toxic)

Animal

Ackerman 1958, Connor 1977, Edwards 1941, Gardener's Monthly 1869, Goldman 1977, Hansen 1930, Jacobziner 1962, Kingsbury 1964, Lagneau 1947, Muenschler 1951, Naudin 1932, Neotzel 1941, Ransom 1874, Schneider 1933

Man

J. Am. Med. Assoc. 1917a, b, c, d, Arena 1972, Benner 1943, Benson 1919, Blin 1943, Bree 1853, Brocq-Rousseau 1933, 1941, Burton 1910, 1911, Connor 1977, Coppock 1970, Dack 1956, Deichmann 1969, Fassett 1973, Forsyth 1968, Foy 1917, Gardeners' Chronicle 1847a, b, 1853b, 1928, Gessner 1931, Golby 1917, Gotze 1967, Grieve 1971, Hansen 1930, Horticulturalist 1847a, b, Jeghers 1945, Jacobziner 1962, Kalliala 1964, Kingsbury 1964, Kohman 1929, Koul 1942, Kuster 1920, Lancet 1915, 1917b, Leffman 1919, Mackenzie 1846, 1847, Maillart 1917, Manning 1899, Min. of Agr. Fish. Food (no date), Moeschlin 1956, Muenschler 1951, Nature 1917, Pachot 1907, Parkin 1928, Pharm. J. 1901, 1906, Pharmaceutische Centralhalle 1907, Pyke 1972b, Robb 1919, Rosenau 1920, Roth 1984, The Rural New Yorker 1898a, b, Ryder 1930, Schulthess 1903, Schweizerische Apotheker - Zeitung

OXALIC ACID - INGESTION - POISONOUS - Man (Cont'd)

1918, Sci. Am. 1917, Sci. Am. Supp. 1917, Sippy 1919, Steger 1972, Streicher 1964, Suckling 1974, Talapatra 1948, Tallqvist 1960, USDA 1917, Varslot 1980, Wall 1949, Watt 1962, Weiner 1979, Williams 1985, Yamaguchi 1983

REMOVAL (Detoxification)

Angerhausen 1920a

USE AS ANTIOXIDATION AGENT (Preventing discoloration)

Doesburg 1949, Sandalova 1979

OXYMETHYLANTHRAQUINONES -- See COMPOSITION - CHEMICAL - Anthraquinones

-P-

PACKAGING

Brehm 1916b, Howe 1964, Hruschka 1967a, 1971, 1974b, University of Leeds 1970, Market Growers J. 1947, Packer 1985, Queensland Dept. of Primary Industries 1966, Quick Frozen Foods 1952, Smith 1937

PANTHOTHENIC ACID -- See COMPOSITION - NUTRITIONAL

PASSION DOCK -- See FALSE RHUBARB

PATENTS

CHEMICAL PROCESS, PROCESSING

Demuth 1982, Hayashi 1979, Hisamitsu 1981a, b, Heilman 1946, Helm 1947, Jiang 1986, Kasai 1985, Kleim 1984, Kubo 1979, Kuwano 1979, Manier 1985, Nagase 1983, Nishioka 1986, Ohtsu 1976, Oshio 1974, 1977, 1979, Shibata 1982, Stout 1949, Soendergaard 1984

PLANT VARIETY

Kreiger 1980, Whitmore 1974

FORCING TECHNIQUE

Harlan 1861

PATIENCE DOCK = *Rumex patientia* L. -- See FALSE RHUBARB

PATHOLOGY

Mauritius Dept. of Agr. 1961, Schindelmeiser 1911

PECTIN CONTENT -- See COMPOSITION - PHYSICAL

PERFUMES (Fragrances)

Frattini 1974, 1976, Sporstol 1982

PEST CONTROL

Eichler 1949, Hahmann 1935, Lehman 1932, Luzhetskii 1940, Metzger 1936, Morstatt 1913, Muhle 1947, Muller 1926, Neumann 1937, Olthof 1970, Ransom 1874, Romanowski 1980, Sandsted 1980, Stearns 1937, Vaus 1969, Washington State Univ. 1964, 1970, Wells 1978

PESTICIDE RESIDUES

Andersen 1983, Biologische Bundesanstalt 1980, Bulinski 1972, Maitlen 1981, Orbaek 1985, Pluta 1980, Washington State Univ. 1962

PESTS (Note: An attempt has been made in the Subject Index to update these pests to their current accepted name. The names as shown in the original reports are cross-referenced to the currently adopted name.)

ARTHROPODS

Arachnida (mites, etc ...)

Amblyseius tabis Schuster and Pritchard
McMurtry 1971

Hemitarsonemus latus (Banks) -- See *Polyphagotarsonemus latus* (Banks)

Otiorhynchus nodosus (O. Fabricius) = *Otiorhynchus dubius* (nodosus)
Schoyen 1924

Phytoseiid mites
MacMurtry 1971

Polyphagotarsonemus latus (Banks) - broad mite
Gellatley 1969

Tenuipalpus californicus (Banks)
Agr. Gaz. 1941

Tetranychus urticae Koch - two-spotted spider mite
Agr. Gaz. 1941, Oatman 1970

Typhlodromus arboreus = *Typhlodromina arborea* (Chant) Muma 1961 -
Phytoseiid mites
McMurtry 1971

Typhlodromus occidentalis Nesbitt - Phytoseiid mites
McMurtry 1971

GENERAL

Klinkowski 1976

INSECTA (Insects)

Coleoptera (Beetles)

Anomala orientalis Waterhouse - oriental beetle
Hallock 1931

Apion antiquum Gyllenhal - South African emex weevil
Harley 1975

Autoserica castanea (Arrow) -- See *Maladera castanea*

Brachyrhinus ovatus (Linnaeus) -- See *Otiorhynchus ovatus* (Linnaeus)

Brachyrhinus raucus (Fabricius) -- See *Otiorhynchus raucus* (Fabricius)

PESTS - INSECTA - Coleoptera (Cont'd)

Chaetocnema concinna (Marsham) - "brassy tooth-legged flea beetle"
Newton 1929, Tullgren 1917

Cneorrhinus geminatus (F.) -- See *Cneorrhinus plagiatum* (F.)
Ritzema 1914

Cneorrhinus plagiatum (Schaller) = *Cneorrhinus germinatum*
Hahmann 1935

Epitrix cucumeris (Harris) - potato flea beetle
Essig 1926

Galeruca tanaceti (Linnaeus)
Luhmann 1939, Muller 1917

Galerucella grisescens (Joannis) - "strawberry leaf beetle"
Matsuda 1983

Galerucella vittaticollis - *Galerucella grisescens* (Joannis)

Gastroidea cyanea (Melsheimer) -- See *Gastrophysa cyanea* (Melsheimer)

Gastroidea polygona (Linnaeus) -- See *Gastrophysa polygona* (Linnaeus)

Gastroidea viridula (DeGeer) - a leaf beetle -- See *Gastrophysa viridula*

Gastrophysa cyanea (Melsheimer) - "green dock beetle"
Essig 1926

Gastrophysa polygona (Linnaeus)
Lesne 1927

Gastrophysa viridula (DeGeer) - "dock beetle"
Ferdinandson 1919, Guile 1984, Hitterhaus 1965, Lesne 1927, Muhle 1950,
Neubauer 1979, Schenk 1926, Stagl 1978

Hypera rumicis (Linnaeus)
Hukkinen 1925, USDA 1933

Lasioderma serricorne (Fabricius) - cigarette beetle
Jones 1913

Limonius canus LeConte - Pacific Coast wireworm
Lehman 1932

Limonius californicus (Mannerheim) - sugarbeet wireworm
Lehman 1932

Lixus concavus Say - rhubarb curculio
Bailey 1921, Baldwin 1914, Beattie 1937a, Blatchley 1916, Borrer 1954, Cantelo
1980, Chittenden 1909, Forbes 1905, Girault 1915, Grafius 1987, Herrick 1925,
Kingsolver 1972, Maskew 1917, Michigan State Univ. 1962, Mitchell 1978, O'Kane
1914, Ontario Dept. Agr. 1960, Pererson 1948-1973, Pettit 1905, Reed 1963,
Sanborn 1916, Sanderson 1912, Sorauer 1913, Tompkins 1972, Waters 1983, Weiss

PESTS - INSECTA - Coleoptera - *Lixus concavus* Say - rhubarb curculio (Cont'd)
1912, Wells 1978

Lixus mucidus Lec.
Blatchley 1916, Forbes 1905

Maladera castanea (Arrow) - Asiatic garden beetle
Hallock 1933

Maladera holosericea (Scopoli) - "white grub"
Neumann 1937

Niptus hololeucus (Faldermann) - golden spider beetle
Pussard 1928

Otiorhynchus ovatus (Linnaeus) - strawberry root weevil
Essig 1926, Treherne 1912

Otiorhynchus raucus (Fabricius) - weevil
Hoffman 1923

Phyllotreta nemorum (Linnaeus) - turnip flea-beetle
Botanical J. 1916

Popillia japonica Newman - Japanese beetle
Metzger 1936

Psylliodes punctulata Melsheimer - hop flea beetle
Chittenden 1909, Essig 1926, Glendenning 1927, Loan 1969, Parker 1910

Rhinocus pericarpus (Linnaeus)
Hoebeke 1980, Hukkinen 1925

Scarabaeidae
Ladd 1987

Diptera (Flies)
Anthomyiid
Poeteren 1938

Bibio abbreviatus Loew - "The March fly"
Strickland 1916

Drosophila - fruit flies
Grafius 1987, Michigan State Univ. 1962, Wells 1980

Heteroptera (plant bugs, seed bugs, lace bugs, bed bugs, water bugs, aphids, etc.)

Capsus solani
Vosler 1913

Hesperandrius pallidus - aphid
Emden 1925

Irbisia solani (Heidemann) Schartz 1984 - black grass bug
Essig 1926, Vosler 1913

PESTS - INSECTA - Heteroptera (Cont'd)

Irbisia brachycerus Uhler -- See *Capsus solani*

Homoptera

Anuraphis maidiradicis (Forbes) - corn root aphid
Essig 1926

Aphis craccivera Koch - bur clover or cowpea aphid
Essig 1926

Aphis fabae Scopoli - black beet poppy (leaf) aphid, bean aphid
Malaquin 1913, Mitchell 1978, Heil- und Gewurzpflanzen 1921, Pustet 1924

Aphis medicaginis Koch -- See *Aphis craccivera* Koch

Aphis papaveris F. -- See *Aphis fabae* Scopoli

Aphis rumicis Linnaeus - aphid
Davidson 1925, Emden 1925

Aphrophora permutata Uhler - rhubarb spittlebug
Essig 1926

Dactynotus sp.
Mitchell 1978

Dysaphis emicis (Mimear) - aphid
Narzikulov 1971

Dysaphis rheicola (Danjarova) sp. n. -- See *Dysaphis emicis* (Mimear) - aphid

Empoasca fabae (Harris) = *Empoasa mali* LeBaron - potato leafhopper
Delong 1928, 1931, Hartzell 1921, Metcalfe 1951, Mitchell 1978, Ruggles 1922,
Stearns 1937

Empoasca mali LeBaron -- See *Empoasca fabae* (Harris)

Macrosiphum euphorbiae (Thomas) - potato aphid
Chamberlain 1954, Mitchell 1978

Myzus persicae (Sulzer) - green peach aphid
Chamberlain 1954, Essig 1926, Mitchell 1978, Oatman 1970

Pemphigus sp. - aphids
Savage 1982

Prociphilus sp. - aphids
Mitchell 1978

Pseudococcus calceolariae (Maskell) Clausen - citrophilus mealybug
Clausen 1916

Pseudococcus citrophilus Clausen MSS - See *Pseudococcus calceolariae*
(Maskell) Clausen - citrophilus mealybug

PESTS - INSECTA - Homoptera (Cont'd)

Saissetia oleae (Olivier) - black scale
Essig 1926

Scolytopa australis (Walker) - passion vine hopper
New South Wales 1973

Hymenoptera - (wasps, sawflies, and ants)

Dorylus indicus
Henry 1916

Lepidoptera (moths and butterflies)

Acronicta rumicis (L.) - "owlet moth"
Auersch 1967, Stshegolev 1930

Agrotis segetum (Denis & Schiffermuller) - "owlet moth"
Stshegolev 1930

Archips argyrospila (Walker) - Fruittree leafroller
Gill 1913

Arctia caja L. - "garden tiger moth"
Drees 1957

Autographa californica (Speyer) - alfalfa looper
Spencer 1936

Barathra brassicae (L.) -- See *Mamestra brassicae* (L.) - "owlet moth"

Ceramica picta (Harris) -- See *Melanchra picta* (Harris) - zebra caterpillar

Chamaepora rumicis (L.) -- See *Acronicta rumicis* L. - "owlet moth"

Chorizagrotis auxiliaris (Grote) -- See *Euxoa auxiliaris* (Grote)

Clepsia spectrana (Treitschke)
Alford 1976

Diacrisia virginica (Fabr.) - "Virginia tiger moth" or "yellow bear caterpillar"
Essig 1926, Marsh 1910

Euxoa auxiliaris (Grote)
Mitchell 1978

Euxoa segetum Schiff. -- See *Agrotis segetum* Denis & Schiffermuller - "owlet moth"

Gortyna (Hydroecia) micacea Esp. -- See *Hydraecia micacea* (Esper)

Hydraecia micacea (Esper) - potato stem borer
Bereza 1975, Brittain 1914, 1915a, b, 1917, 1924, Ellis 1982, Issi 1975, Jobin
1962, 1963, Mellard 1978, Pospelov 1965, Shaw 1957, Vappula 1932

Mamestra brassicae (L.) - "owlet moth"
Stshegolev 1930

PESTS - INSECTA - Lepidoptera (Cont'd)

Melanchra picta (Harris) - zebra caterpillar
Brittain 1917, Gibson 1917

Ostrinia nubilalis (Hubner) - European corn borer
Canada Dept. of Agr. 1920, USDA 1920

Papaipema cataphracta (Grote) - burdock borer
Mitchell 1978

Papaipema nebris (Guenee) - stalk borer
Kling 1977, Metcalfe 1951, Mitchell 1978

Papaipema nitela - "tomato borer"
Pettit 1905

Peridroma margaritosa (Haworth) -- See *Peridroma saucia* (Hubner) - variegated cutworm

Peridroma saucia (Hubner) - variegated cutworm
Mitchell 1978

Prodenia eridania (Cramer) -- See *Spodoptera eridania* (Cramer)

Prodenia ornithogalli (Guenee) -- See *Spodoptera ornithogalli* (Guenee)

Pyrausta nubilalis (Hubner) -- See *Ostrinia nubilalis* (Hubner) - European corn borer

Scotogramma trifolii (Hufnagel) - clover cutworm
Stshegolev 1930

Spodoptera eridania (Cramer)
Mitchell 1978

Spodoptera ornithogalli (Guenee)
Mitchell 1978

Trachea atriplicis (L.)
Bovien 1941, Tidsskrift for Planteavl 1941

Orthoptera (crickets and grasshoppers)

Grylotalpa africana Palisot de Beauvois - African mole cricket
Morstatt 1913

MOLLUSKS

Gastropoda (slugs and snails)

Deroceras reticulatum (Mueller) - grey garden slug
Getzin 1965a, b, 1971

NEMATODES

Anguillulina dipsaci Kuhn, 1857 (Syn of *Ditylenchus dipsaci*)
Bradbury 1977, Johnson 1936, 1939, Metcalfe 1940

PESTS - NEMATODES (Cont'd)

Aphelenchoides ritzemabosi (Schwartz, 1911) Steiner & Buhner, 1932 Chrysanthemum
foliar nematode
Boesewinkel 1977

Criconemoides sp. - ring nematodes
Loughton 1969b, 1970a

Ditylenchus destructor Thorne, 1945 - potato rot nematode
Brinkman 1977, Dern 1966, Frauenstein 1976

Ditylenchus dipsaci (Kuhn, 1857) Filipjev, 1936 - stem and bulb nematode
Brinkman 1977, Frauenstein 1976, Green 1967 Goodey 1965, Hector 1913, Lebour
1914, Min. of Agr., Fish. Food 1969, Olthof 1968, Perret 1971, Taylor 1914

Globodera rostochiensis (Wollenweber, 1923) Behrens, 1975 - golden nematode,
potato cyst nematode
Olthof 1970

Helicotylenchus digonicus Perry in Perry, Darling, and Thorne, 1959 - spiral
nematode
Olthof 1970

Heterodera avenae Wollenweber, 1924 (Filipjev, 1934) - cereal cyst nematode
Olthof 1968, 1970

Heterodera galeopsidis Goffart, 1936 - Galeopsis root nematode
Goodey 1965, Winslow 1954

Heterodera marioni -- See *Meloidogyne* sp.

Heterodera rostochiensis -- See *Globodera rostochiensis*

Heterodera schachtii Schmidt, 1871 - sugarbeet nematode
Goodey 1965, Harris 1985, Hartsuijker 1947, Ingratta 1976, 1979, Townshend 1966,
1967, 1973

Heterodera trifolii (Goffart, 1932) - clover cyst nematode
Goodey 1965, Loughton 1969b, Winslow 1954

Longidorus macrosoma Hooper, 1961 - needle nematode
Fritzsche 1968

Meloidogyne arenaria (Neal, 1889) Chitwood, 1949 - peanut root-knot nematode
Goodey 1965, Martin 1958, Steiner 1934

Meloidogyne hapla Chitwood, 1949 - Northern root-knot nematode
Potter 1972, Townshend 1967, Steiner 1934

Meloidogyne javanica (Treub, 1885) Chitwood, 1949 - Japanese root-knot nematode
W. Australia Dept. of Agr. 1973, Goodey 1965, Martin 1958

Meloidogyne sp. - root-knot nematode
Harris 1985, Minz 1958, USDA 1960

PESTS - NEMATODES (Cont'd)

Paratylenchus projectus Jenkins, 1956 - pin nematode

Ingratta 1976, 1979, Loughton 1969b, 1970a, Olthof 1968, Swanson 1977,
Townshend 1967, 1973

Pratylenchus pratensis (de Man, 1880) Filipjev, 1936 - root-lesion nematode,
lesion nematode

Goodey 1940, 1965, Loughton 1969b, Olthof 1968, 1970

Pratylenchus penetrans (Cobb, 1917) Filipjev & Schuurmans, Stekhoven, 1941 - root-
lesion nematode

Olthof 1968, 1970, Swanson 1977, Townshend 1967, 1973

Tylenchulus semipenetrans, Cobb, 1913 - citrus root nematode

Harris 1985

Tylenchus devastatrix -- See *Ditylenchus dipasci*

Xiphinema sp. - dagger nematodes

Fritzsche 1963, 1968

Xiphinema bakeri Williams, 1961 - dagger nematode

Swanson 1977

Xiphinema coxi Tarjan, 1964 - dagger nematode

Fritzsche 1968

Xiphinema diversicaudatum (Micoletzky, 1927) Thorne, 1939 - dagger nematode

Fritzsche 1968

Xiphinema paraelongatum Altherr, 1958 - dagger nematode

Fritzsche 1963

QUARANTINE

USDA 1920

UNIDENTIFIED PESTS

Mesocerus marginatus

Eichler 1949

PETIOLE SIZE -- See PHYSICAL DIMENSIONS

PHARMACEUTICAL PREPARATIONS -- See PHARMACOGNOSY

PHARMACOGNOSY (The science which treats the physical structure and chemical nature of crude drugs of natural origin of unprepared medicines, specifically dealing with the sources, physical characteristics, constituents, analysis, formulation, preparation and phytochemistry)

DRUG PREPARATIONS

Am. Inst. of Hom. 1964, Am. Pharm. Assoc. 1912, Arny 1918, Arteaga 1960, Aweng 1898b, c, Babash 1985, Bogs 1966, Bondarenko 1984, Bretschneider 1871, British Pharm. Codex 1959, British Pharmacopoeia 1953, 1973, Brown 1923, 1976, Carpenter

PHARMACOGNOSY - DRUG PREPARATIONS (Cont'd)

1825, Chi 1955, Claus 1956, Cleghorn 1862, Csajtai 1975b, Denee 1981, Fordyce 1792, Frerichs 1949, Frey 1913, Gassner 1973, Gorodnichev 1973, 1975, Gotze 1967, Gstirner 1955, 1970, Hubik 1979a, Kaczmarek 1967, 1968, Kudryavtseva 1978, Kuwano 1979, Lemli 1963, Lewis 1759, Li 1980, Liptak 1938, Lust 1974, Mansfield 1937, McGuigan 1928, Muhlemann & Scherrer 1941, Muhlemann & Tatri 1967, Nat. Dispensatory 1894, Nat. Form. 1955, Nederlandse Farmacopee 1966, 1978, Osol 1947, Reum 1914, Roi 1955, Rosenthaler 1907, Sayre 1917, Scherrer 1941, Scoville 1920, Scudder 1875, Semple 1892, Sollmann 1948, Stevens 1916, Suzuki 1982, Zedler 1742, Zhao 1986

GENERAL

Adrian 1891, Ainslie 1826, Alpini 1629, Alston 1770, Am. Pharm. Assoc. 1912, Attfield 1875, Aujord 1904, Becker 1909, Benigni 1964, Berger 1960, Berthier 1899, Bezanger-Beauquesne 1973, Bianchini 1975b, Bondois 1938, Borisyuk 1967, Box 1944, Canciulli 1950, Chirikdjian 1983, Chew 1963, 1964, 1966, Chopra 1933, 1956, 1969, Clarke 1881, Claus 1956, Cleghorn 1862, Cooper 1910, Correron 1896, Cyong 1987, Dale 1693, Debelmas 1973, Deutische Arzneibuch 1978, Deutschmann 1979, Dutt 1928, Dye 1901, Dymock 1883, 1884, 1892, Egawa 1975, Elbanowska 1973, Elzenga 1958, Evans 1912, Farmacopea Ufficiale Della Repubblica Italiana 1965, Farmacopeia Portuguesa 1935, Ferguson 1956b, Fischer 1978, Fluck 1973, Fluckiger 1873, 1876, 1879, 1891, Fodor 1930, Geiger 1833, Geoffrey 1741, 1751, 1756, Gobel 1833, Gorodnichev 1975, Goris 1907, Grant 1920, Greenish 1933, Gstirner 1949, Gu 1985, Gusseva-Badmaeva 1972, Hallier 1864, Hama 1973, Hansel 1980, Hartke 1988, Hartwich 1899, 1904, Hecht 1931, Heil- und Gewurzpfl. 1924, 1926, Heinrich 1904, Hesse 1896, 1901, Hocking 1945, 1955, Hoehne 1939, Holmes 1877a, Hoppe 1958, Howie 1875, Hwass 1878, Jakabhazy 1902, Jaschke 1955, Jiang 1986, Jole 1958a, b, Juliet 1913, Kennedy 1754, Khan 1841, Kim 1973, 1975, Kirtikar 1918, Kraemer 1915, Krober 1925, 1927a, Kubo 1979, Kurata 1978, Laufer 1919, Lindemann 1965, Linke 1914, Luckner 1966, Lust 1974, Madaus 1938, 1976, Manandhar 1980, Mansfield 1937, Marini 1982, Matsuoka 1970, Miller 1722, Milstein 1963, Mino 1984, Mitsuhashi 1967, Moeller 1899, Molfino 1949, Morelet 1807, Mukerji 1943, Muller-Dietz 1969, Nagasawa 1978, New Delhi Pub. Directorate 1972, Nishioka 1983, 1986, Oesterreichisches Arzneibuch 1960, Orth 1961, Os 1953, 1976a, Oshio 1985, Osol 1947, Paris 1967, Pasquale 1972, 1980, Penny Cyclopaedia 1841, Pereira 1845, Pharmacopoea Danica 1948, Pharmacopoea Helvetica 1971, Pharmacopoea Hungarica 1934, Pharmazeutische Monatshefte 1924, Planchon 1895, 1946, Proctor 1894, Rafinesque 1830, Ray 1944, Readers Digest NV 1979, Regel 1874, Risi 1940, Ritter 1832, Rodin 1872, Roi 1955, Rosenthaler 1914, Rosenthaler and Kiene 1914, Sandemann 1769, Sayre 1917, Schilcher 1970, Schindelmeiser 1911, Schratz 1956, 1957, 1966, Schultes 1980, Seel 1948, Semmel 1918, Siegfried 1943, Siesto 1957, 1958, Stahl 1962, 1970, 1981, Steinegger 1968, Stevens 1916, Stuart 1979, Svenska Farmakopen 1946, Taroeno 1978, Tentsova 1978, Trease 1972, 1978, Treptow 1985b, Truelle 1926, Tschirch 1904a, b, 1907, 1916, 1919, 1923, 1924, 1927, Tschirch and Eijken 1904a, b, Tschirch and Hiepe 1900, Tschirch and Oesterle 1900, Tschirch and Ruszkowski 1912, Tsukui 1977, Tukats 1933, 1935, Tunmann 1917, 1918, Twining 1835, Tyler 1976, Uniyal 1969, Usher 1878, 1894, Vahlensieck 1982, Valaer 1931, Varlikh 1901, Vonderbank 1950, Vyth 1979, Wagner 1980, Wagner, Horhammer 1962, Wallis 1955, 1967, Wang, Liang 1963, Waring 1868, Werner 1877, Westwood 1972, Wheeler 1830, Wichtl 1984, Wilson 1906, 1910, Windholz 1976, Wirth 1938, Workman 1959, Wurke 1934, Xiao 1984, Yamasaki 1986, Yokozawa 1983, 1984, 1985, 1986, Youngken 1932, 1943, 1944, 1946, Zedler 1742, Zepernick 1984, Zhang 1986, Zheng 1986, Zhou 1985

PHARMACOLOGY (The science that deals with the activity, administration and especially the effects of drugs).

ANTIBIOTIC, ANTIMICROBIAL

Arkadyeva 1966, Benigni 1950, Chen 1962, 1963, 1964, Cyong 1987, D'Amico 1950, Egawa 1975, Firchuk 1965, Gaw 1949, Li, Su 1964, Matsumoto 1985, Meilland-Boffard 1977, Mesa 1951, Nadkarnie 1977, Vichkanova 1979, Vonderbank 1950

ANTIDYSENTERIC

Burkitt 1921, Chemist and Druggist 1923, Ishino 1947

ANTIHYPERTENSION - See PHARMACOGNOSY - General

ANTI-INFLAMMATORY - See PHARMACOGNOSY - General

ANTITUMORAL EFFECTS

Belkin 1952, Chen 1966, Dawidowicz-Grzegorzewska 1976a, b, c, Hwang 1980, Ishino 1947, Kosuge 1985, Kubas 1972, Moon 1985, Yeh 1973

BIOASSAY

Auterhoff 1953a, c, Bacskay 1969, Chumbalov 1970, Fairbairn 1970, Ferguson 1956a, Fuhner 1925, 1927, Kofler 1918, Lou 1951, 1953, Tsukui 1974

CLINICAL

Cheng 1985, Jiao 1978, 1980, 1980a, 1981, 1982, 1983, 1984, 1984a, b, c, d, e, f, 1985, 1985a, b, c, 1986, Liu 1981, Mitsuma 1984, 1987, Qian 1981b, 1982, 1986, Streicher 1964, Weng 1985, Yang 1985, Yokozawa 1983, 1984, 1985, 1986, Zhang 1985, Zhao 1986, Zheng 1986, 1986a, b, Zhou 1988

GENERAL

Aburda 1976, Andreeva 1962, Anton 1980, Arkadyeva 1966, Arteaga 1960, Belkin 1952, Bentley 1925, 1929, 1937, Berendes 1902, Berson 1956, Bianchini 1975a, Bohme 1981, Bohrisch 1916, Brown 1976, 1979, Burkitt 1921, Bykov 1985, Cairella 1976, Campbell 1980, Chemist and Druggist 1923, Chen, Chao 1966, Chen, Cheng 1962, Chen, Kao 1963, Chen, Liu 1980, Chen, Li 1963, Chen, Liu 1964, Chirikdjian 1983, Chumbalov 1966, Chung 1981, Cornarius 1540, Cushay 1936, Dawidowicz-Grzegorzewska 1976a, b, c, Dechambre 1876, Diechmann 1969, Dong-hai 1980, Du 1983, Estevez 1939, Fairbairn 1951, 1970, 1976, Finch 1981, Firchuk 1965, Fotiades 1976, Frerichs 1949, Frohner 1893, Fujimura 1983, Glatzel 1968, Goodman 1955, Grumme 1933, Gruber 1931, Guibourt 1824, 1838, Gunther 1934, Haas 1949, Han 1984, Hansel 1983, Hellemont 1985, Hellwig 1723, Helm 1947, Henry 1836, 1837, Hill 1945, Hoppe 1958, Hsu 1966, Hwang 1980, Ishino 1947, Izawa 1960, Jaschke 1955, Jiao 1984, Joachimovitz 1924a, Kaczmarek 1968, Kadake 1973, Kaslasnikov 1945, Kawabata 1973, Kawashiri 1986, Kielek 1974, Kim, H. 1975, Kim, J. 1985, Klimek 1970, Kloss 1971, Kobashi 1980, Kojima 1977, Kosuge 1985, Krober 1923b, Kubas 1972, Kushi 1980, Lawall 1927, Li, Hwang 1986, Li, Kuo 1980, Li, Su 1964, Ma 1984, MacCallum 1906, Madaus 1938, McCay 1947, Maimon 1968, Masuda 1984, Meillaud-Boffard 1977, Mesa 1951, Mitsuma 1984, Molle 1975, Moon 1985, Morelet 1807, Muhlemann 1949, Nadkarni 1927, Nagasawa 1979, 1984, Nagasa 1983, Nagata 1973, Natori 1973, Nikolaeva 1977, 1985, Nishioka 1985, Oesterle 1910, Ohsson, D' 1834, Ohtsu 1973, Okai 1978, Os 1976b, Oura 1984, Oura, Shibusani, Nagasawa and Nishioka 1983, Oura 1983, 1984, 1985, Oura, Yokozawa, Nagasawa, and Zheng 1983, Palm 1869, Park 1985, Parkinson 1629, Paul 1934, Pechey 1694, Pederson 1898, Penny Cyclopaedia 1841, Readers Digest NV 1979, Peretti 1828, Pierson 1920, Royle 1829, Schmid 1949, 1951, Schulthess 1903, Scoville 1920, Semple 1892, Shibusani 1980, 1983, Siegrist 1932, Sik 1948, Sollmann 1948, Sollohub 1986,

PHARMACOLOGY - GENERAL (Cont'd)

Sonnedecker 1963, Soto 1929, Sprengle 1817, Streicher 1964, Terajima 1976, Thomson 1978, Trommsdorff 1796, Tschirch 1900b, Tsukui 1974, Tsurumi 1969, 1975, Twining 1835, Ueda 1977, U.S. J. Drug Alcoh. Dep. 1978, Usher 1867, Verhaeren 1978, 1982, Vichkanova 1979, Vogel 1975, Wallis 1934, Wang, Chen 1977, Watt 1962, Wedel 1708a, b, Wegmann 1977, Wojciki 1974, Workman 1959, Xiao 1980, 1982, Xiong 1982, Yeh 1973, Yokozawa 1985b, Youngken 1951, Zedler 1742, Zhang 1986

HAEMOSTATIC

Berson 1956, Cheng 1978, Han 1984, Jaio 1977, 1980b, 1981, 1982, 1983, 1984b, 1985, 1987, Helm 1947, Kawashiri 1986, Kim 1985, Kosunge 1985, Liang 1983, 1984, 1986, Liu 1981, 1982, Qian 1981a, Wang 1985, Yang 1985

PHENOCARBONIC ACID -- See CARBONIC ACID

PHOTOPERIOD -- See BOLTING

PHOSPHORUS CONTENT -- See COMPOSITION - NUTRITIONAL

PHOTOSYNTHESIS (Also see PHYSIOLOGY)

Bykov 1969, Frydrych 1974, Morrison 1949, 1950, Shatilov 1972, Stepanova 1972a, Titlyanov 1967, 1968, Voznesensky 1975

PHYSCION -- See COMPOSITION - CHEMICAL - Anthraquinones

PHYSICAL DIMENSIONS (Weight, length, etc. of petioles)

Brown 1943, 1944, Cuthill 1853b, Gardeners' Chronicle 1853a, Home Garden 1944, J. Hort-Home Farmer 1910, Kmiecik 1974a, Life Magazine 1937, Marshall 1978, Marten 1874

PHYSICIAN -- See PHARMACOGNOSY, PHARMACOLOGY

PHYSIODORMANCY (Also see GIBBERELIC ACID)

Brovchenko 1963, Case 1965, 1966, 1967, 1968, 1969a, b, 1973, Commercial Grower 1964, Culpepper 1932, 1933, Dawidowicz-Grzegorzewska 1976a, b, c, Dickson 1965, Fry 1957, Hepler 1928, Hiller 1975, Hiller 1977, 1979, Loughton 1957, 1960, 1961a, b, 1962a, b, 1965, 1966, 1969b, 1970a, b, Kursunov 1959, Min. of Agr, Fish. Food 1978b, Ontario Dept. Agr 1963, 1964, 1967, Rosenthal 1938, Rutherford 1975, Schaffer 1978, Smith 1899, Stockbridge House Exp. Hort. Sta. 1959, 1960, 1973, 1974, Tiessen 1966, Tompkins 1965, 1966b, e, 1967b, Washington State Univ. 1965, Wiebe 1961, 1964, 1965, 1966a, b, 1967, Wiebosch 1971

PHYSIOLOGY

Akzhigitovia 1985, Atkins 1972, Borio 1958, Brooks 1905, Darlington 1935, 1945, Grigorjev 1981, Ismailov 1895, Karpushkin 1980, Klein 1977, Kursanov 1959, Laisk 1980, Mohr 1971, Morrison 1947, 1951, Myers 1947, Newby 1930, Paech 1950, Pallas 1969, Pucher 1937a, 1937b, 1938, Robinson 1975, Rosenthal 1938, Rozov 1976a, 1976b, 1977, Ruhland 1927, 1929, Samygin 1967, Shatilov 1972, Slepchenko 1968, Stafelt 1955, Steinmann 1916, 1917, Sveshnikova 1975, Titlyanov 1967, 1978, Tompkins 1965, 1966a, Towers 1979, Tulecke 1965, Turner 1978, Vickery 1938, 1939, Weits 1965, Wiebe 1969, Wills 1975

PLANT COMPOSITION -- See PHYSIOLOGY

PLANT DESCRIPTION -- See VARIETY - DESCRIPTION/IDENTIFICATION, PHARMACOGNOSY, TAXONOMY

PLANT PATENTS -- See PATENTS - PLANT VARIETY

PLANT PHYSIOLOGY -- See PHYSIOLOGY

PLANTING DATES

Stockbridge House Exp. Hort. Sta. 1960, 1973, 1978, Wester 1976

PLASTIC MULCH -- See MULCH - PLASTIC

PLUM CURCULIO -- See PESTS

POISONING -- See OXALIC ACID - INGESTION - Poisonous

POLLUTION (Airborne) -- See POLLUTION (Airborne)

POLLUTION (Metallic -- crop content or of soils) -- See ENVIRONMENTAL
POLLUTION - Metallic or COMPOSITION - CHEMICAL - PHYSICAL

POLLUTION (Physiological) -- See DISEASES - PHYSIOLOGICAL - Air pollution
Damage, PESTICIDE RESIDUES

POLYGONACEAE

Hesse 1979, Xiong 1982

POLYPHENOLS (Also see COMPOSITION - CHEMICAL - Flavonoids, - Hydroxycinnamic
Acid, - Tannins)

Blundstone 1967, 1970, Friedrich 1966a, b

POLYPLOIDY

Frydrych 1962

POTASSIUM CONTENT -- See COMPOSITION - NUTRITIONAL

POTASSIUM OXALATE -- See OXALIC ACID

PREPARATION/PRESERVATION

CANNING, BOTTLING (Also see CORROSION)

Arthey 1968, Brewer 1916, Commercial Grower 1963, Cuthill 1853a, Daniels 1853,
Delaney 1975, 1981, Evans 1978, Food Technology in Australia 1972, Gardeners
Chronicle 1846b, 1899a, Gormley 1967, Greeley 1971, Johnson 1917, Joslyn 1929,
Kohman 1926, Kozenko 1977, Norman 1978, Smith 1962, Stanley 1986, Stockbridge House
Exp. Hort. Sta. 1978, Successful Farming 1954, USDA 1976, Washington State Univ. (no
date), Whitwell 1978

COOKING

Univ. of Alaska 1945, 1953, Brewer 1916, Cunningham 1949, Dobray 1966, Emmons 1916,
Hope 1957, Ruben 1984, Rural New Yorker 1916, 1919, Satter 1958, Successful Farming
1960, Vasina 1980, Washington State Univ. (no date)

FREEZING

Arthey 1968, Beckman 1973, Canadian Government 1970, Daughters 1946, Doesburg
1949, Greeley 1971, Harvey 1933, Lee 1946, 1950, Mahadeva 1972, Modern Packaging
1943, Mohr 1971, Quick Frozen Foods 1952, Stanley 1986, Successful Farming 1954,
Thuesen 1982a, Uemura 1970, Woodmansee 1948

PREPARATION/PRESERVATION (Cont'd)

GENERAL TECHNOLOGY

Canner 1943, Crang 1947, Cruess 1958, Dunn 1974, Fan-Yung 1961, Harlan 1861, 1862, Hartwich 1904, Hilliker 1967, Meisner 1822, Modern Packaging 1943, Mordkovich 1956, Neubohn 1976, Petersone 1972, Turner 1828

JAMS, JELLIES, MARMALADES

Andreeva 1962, Dodge 1920, Rural New Yorker 1916, Treptow 1985b, Washington State Univ. 1963, Wolford 1966

JUICES/WINES

Aungerhausen 1920b, Beattie 1939, Benk 1958, Besson 1918, Bondarenko 1984, Bree 1853, Cuthill 1853a, b, Demuth 1982, The Furrow 1985, Gonzalez 1971, Gortner 1946, Harvey 1933, J. of Hort. and Cottage Gardener 1896, 1902, Gardens for All 1983, Karg 1969, Kreis 1916, Nat. Dispensary 1894, Otto 1895, 1897, Packer 1985, Pharmaceutische Centralhalle 1907, Poore 1922, Stearns 1866, Stout 1949, Walsh 1936, Wolford 1966, Ziegelmayr 1947

YOGURT

Blackman 1978

PROCESSING - See PREPARATION/PRESERVATION

PROPAGATION (Also see BREEDING)

CONVENTIONAL VEGETATIVE

Balazs 1973, Bielka 1976, Blin 1950, Boswell 1954, Carlsen 1970, Case 1969a, 1970a, b, c, Claes 1981, Douglass 1934, Fessenden 1835, Gardener's Monthly 1887a, Gault 1955, Hitchon 1967, 1968, Ivanova 1984, Jones 1928, Min. of Agr., Fish. Food 1968b, Mukhanova 1971, Nottingham 1968, 1969, Rodenburg 1961b, Schratz 1965, Smith 1953, Tompkins 1977

RAPID VEGETATIVE

Bleasdale 1967, Case 1965, 1966, 1970a, b, c, 1971a, Commercial Grower 1969, Delaney 1978a, Hitchon 1969, Hitchon, Marston 1969, Kaneko 1986, Keyworth 1968, Krause 1970, Loughton 1966, Min. of Agr. Fish Food 1984, Nat. Agr. Advisory Service 1969, 1970, Nat. Veg. Res. Sta. 1972, Norman 1981, Ohshima 1988, Ontario Dept. Agr. 1962, Paludin 1971, Roggemans 1979, Rosewarne Exp. Hort. Sta. 1964, Schaffer 1978, Stockbridge House Exp. Hort. Sta. 1971, 1973, 1978, Tabata 1981, Tomlinson 1968, Walkey 1967, 1968a, b, 1980, Walkey and Cooper 1971, 1973, 1974, Walkey, Creed, Delaney, Whitwell 1982, Walkey, Matthews 1979, Walkey, Mitchell 1968, Walkey, Tomlinson 1968, Walkey, Woolfitt 1969, 1970, Whitwell 1978, 1979, Wiebe 1962

SEEDS (SEEDING)

Appleby 1982, Augustin 1926, Balazs 1973, Bassett 1980, Bubel 1972, Clark 1976, Copley 1944, Dees 1947, Drozdovskaya 1978, Fessenden 1835, Franklin 1770, Formanowiczowa 1969, Gardening 1905, Holman 1948, J. of Hort. Cottage Gardener 1888, Isely 1965, Ismailov 1986, Ivanova 1984, Jambor 1960, James 1915a, Jougan 1932, Kimura 1967, 1968, Konon 1978, Leslie 1925, 1950, Mackie 1859, Maynard 1986, Meyer 1947, Mukhin 1976, Penn. Agr. Exp. Sta. 1940, Regel 1874a, Rodenburg 1961b, Shvalkovska 1970, 1974, South Africa Dept. Agr 1924, Tschirch 1927, USDA 1961, 1976, Vekshin 1976, Victoria Dept. Agr. 1924, Wallace 1980

PROTEIN CONTENT -- See COMPOSITION - PHYSICAL

PROTEIN CONTENT -- See COMPOSITION - NUTRITIONAL

PSYCHOTROPIC EFFECTS

Ueki 1986

PURGATIVE -- See PHARMACOLOGY, PHARMACOGNOSY

-Q-

QUACK GRASS CONTROL -- See HERBICIDES

QUARANTINE -- See PESTS - QUARANTINE

-R-

RECIPES

Univ. of Alaska 1945, 1948, 1965, 1976, Atland 1959, Ayotte 1978, Balazs 1973, Beckman 1973, Bray 1924, Brewer 1916, Canadian Horticulture 1942, Clark 1977, Cooper 1847, Cunningham 1949, 1954, Dodge 1920, Hafeli 1939, Hulbert 1960, Inman 1923, Koul 1941, Lee 1918, Leola Homemakers Ext. Club 1976, Long Ashton Res. Sta. (no date), Lynan 1916, 1918, McQueston 1987, Nation's Agr. 1958, New Zealand J. of Agr. 1938, Queensland Agr. J. 1936, Saling 1978a, b, Satter 1958, Sims 1941, Smith 1950, Tiebout 1941, Wallaces Farmer 1955

RENAL (KIDNEY) FAILURE -- See PHARMACOGNOSY - GENERAL

RESIDUES, PESTICIDE -- See PESTICIDE RESIDUES, HERBICIDES

REST PERIOD -- See PHYSIODORMANCY

RHABARBARIN (Chrysophanic acid) -- See COMPOSITION - CHEMICAL - ANTHRAQUINONES

RHAFLOWER (Emerging rhubarb flower buds consumed as food) -- see OXALIC ACID - INGESTION - Non-Poisonous, Poisonous - Man

RHACOMA

Fluckiger 1891, Heuberger 1902

RHAPONTIC ROOT (Also see COMPOSITION - CHEMICAL, PHARMACOLOGY, PHARMACOGNOSY)

Banks 1971, Bezanger-Beauquesne 1973, Dye 1901, Fluck 1952, Tschirch 1905a, 1905b, Tschirch and Cristofolletti 1905, Weaver 1927, Wirth 1938

RHAPONTICIN -- See COMPOSITION - CHEMICAL - Rhaponticin

RHAPONTIN -- See COMPOSITION - CHEMICAL - Rhaponticin

RHATANNIN (Condensed tannin purified from Rhei rhizoma) -- See COMPOSITION - CHEMICAL - Tannins

RHEI RADIX and RHIZOMA -- See PHARMACOLOGY, PHARMACOGNOSY

RHEIN (Chrysophanic Acid) -- See COMPOSITION - CHEMICAL - Anthraquinones

RHEUM SPECIES (Note: Only references to major reports on the lesser known or infrequently mentioned species are included here. Therefore, minimal attempt will be made to list references (except for the most detailed) for the commonly mentioned species such as *Rheum rhaponticum* and *R. rhabarbarum*. A number of synonymies are known to exist in the species below.

Rheum acuminatum Hook. f. + Thoms.

Garden and Forest 1894a, Hocking 1945, Losina - Losinskaya 1936 a, b, Samuelsson 1936

Rheum alexandrae Batalin

Bailey 1943, Batalin 1894, Losina - Losinskaya 1936a, b, Mottet 1920

Rheum altaicum Losina - Losinskaya

Cave 1965, Losina - Losinskaya 1936a, b

Rheum anglicum

Dragendorff 1879, Radius 1871

Rheum aplostachyum Kar. & Kir.

Rheum australe D. Don

Don 1827, Guibourt 1838, Henry 1836, 1837, Muller 1876, Wehmer 1911

Rheum austriacum Hort. ex G. Don

Rheum bailloni

Rheum cantoniense Lour.

Rheum caspicum Pall.

Rheum chinesis ined.

Burger 1960, Dragendorff 1879, Xiao 1984

Rheum collinianum Baill. - Collin rhubarb

Rheum compactum L.

Arkadyeva 1966, Cave 1965, Crantz 1766, Hedrick 1919, Losina - Losinskaya 1936a, b, Mawe 1778, Royle 1856

Rheum cordatum Losina - Losinskaya

Losina - Losinskaya 1931, 1936a, b

Rheum coreanum Nakai = See *Rheum koreanum* Nakai

Rheum crassinervium Fischer

Bentham 1836, Dragendorff 1967, Jaretzky 1928, Meisner 1856, Royle 1856

Rheum crispum Hort. ex G. Don.

Wurke 1934

RHEUM SPECIES (Cont'd)

Rheum cruentum Sievers
Meisner 1856

Rheum cultigenum Ivanova

Rheum cultorum Thorsrud & Reisaeter

Rheum cuneatum Regel & Herd.
Trautvetter 1884

Rheum darvasicum (*darwazicum*) Titov
Losina - Losinskaya 1936a, b

Rheum delavayi Franchet
Franchet 1895, Losina - Losinskaya 1936a, b, Samuelsson 1936

Rheum dentatum Mart.

Rheum digynum Wahlenb.
Svensk Botanik 1828, Wahlenberg 1812

Rheum emodi(*um*) Wallich - Himalayan rhubarb
Baerheim-Svendsen 1953, Bailey 1943, Emodi 1928, Dymock 1892, Hedrick 1919,
Hooker 1836, Kelsey 1942, Losina - Losinskaya 1936a, b, Mohiuddin 1935, Royle
1856, Trautvetter 1884

Rheum esculentum Salisb.

Rheum fedtschenkoi Maxim.
Losina - Losinskaya 1936a, b, Trautvetter 1884

Rheum fenestratum Loud.

Rheum forrestii Diels
Diels 1912, Losina - Losinskaya 1936a, b, Samuelsson 1936

Rheum franzenbachii Muenther
Cave 1965, Hartwich 1899, 1904, Hesse 1901, Kelsey 1942, Losina - Losinskaya
1936a, b, Moeller 1899, Munter 1877, Pharmaceutische Centralhalle 1900

Rheum glabricaule Samuelsson
Samuelsson 1936

Rheum glabris
Linnaeus 1749

Rheum himalensis - Himalayan rhubarb
Hocking 1945, Twining 1827

Rheum hirsutifolium Losina - Losinskaya
Losina - Losinskaya 1936a, b

Rheum hirsutum Maxim.

RHEUM SPECIES (Cont'd)

Rheum hissaricum Losina - Losinskaya
Losina - Losinskaya 1936a, b

Rheum hotaoense C. Y. Chen & T. C. Kao
Li 1980, Xiong 1984

Rheum humile Webst. ined.
Dragendorff 1898

Rheum hybridum var *colinianum*
Baillon 1877

Rheum hybridum Murray
Baillon 1877, Bois 1928, Darwin 1800, Grene 1956, Hedrick 1919, Munter 1877, Royle
1856

Rheum indicum - Indian rhubarb, Himalayan rhubarb
Hocking 1945

Rheum inopinatum Prain.
Losina - Losinskaya 1936a, b

Rheum javanicum
Holmes 1877c

Rheum kialense Franchet
Franchet 1895, Cave 1965, Losina - Losinskaya 1936a, b, Samuelsson 1936

Rheum koreanum nakai
Chung 1981, Kim 1975, Losina - Losinskaya 1936a, b, Matsuoka 1970, Nakai 1919,
Tsurumi 1969

Rheum korshinskyi Titov ex Losina - Losinskaya
Losina - Losinskaya 1936a, b

Rheum laciniatum Prain (= *R. palmatum* L.)
Losina - Losinskaya 1936a, b

Rheum latifolium

Rheum leucorrhizum Pallas
Meisner 1856, Pallas 1797, Royle 1856, Samuelsson 1936,

Rheum lhasaense
Tan 1983

Rheum likiangense Samuelsson
Samuelsson 1936

Rheum lobatum Litw. ex Losina - Losinskaya
Losina - Losinskaya 1936a, b

Rheum lucidum Losina - Losinskaya
Losina - Losinskaya 1931, 1936a, b

RHEUM SPECIES (Cont'd)

Rheum macrocarpum Losina - Losinskaya
Drobov 1957, Losina - Losinskaya 1931, 1936a, b

Rheum macropterum Mart.
Meisner 1856

Rheum maculatum C. Y. Cheng & T. C. Kao

Rheum maximowiczii Losina - Losinskaya
Ismailov 1986, Losina - Losinskaya 1931, 1936a, b, Mal'tsev 1986, Sokolskaja 1956

Rheum megalocarpon Maxim.

Rheum micranthum Sam.
Samuelsson 1936

Rheum microcarpum Meisner
Meisner 1856

Rheum moorcroftianum Wall. (Also see *R. moorcroftianum* Royle)
Bois 1928, Dymock 1892, Gardeners Chronicle 1895, Hocking 1945, Losina -
Losinskaya 1936a, b, Royle 1856, Youngken 1951

Rheum moscovicum ined.
Dragendorff 1879, Forshaell 1837

Rheum muricatum Blanco (= *R. undulatum*)

Rheum nanum Sievers ex Pallas
Cave 1965, Chinese Academy of For. 1981, Losina - Losinskaya 1936a, b

Rheum nepalense Kitamura
Wehmer 1911

Rheum nobile Hook. f & Thoms. - Sikkim rhubarb
Bois 1928, Elewes 1875, Hedrick 1919, Horticulturalist 1855, Lindley 1876,
Losina - Losinskaya 1936a, b, Munter 1877

Rheum nostratum
Freygang 1816

Rheum nutans Pallas (= *R. compactum*)
Wehmer 1911

Rheum officinale Baillon
Anchel 1948, Anton 1980, Baillon 1884, Beilstein 1882, Belkin 1952, J. of Botany
1875, Carriere 1874, Cave 1962, 1965, The Garden 1877, Gartenflora 1878, Hartwich
1908, Holmes 1877a, b, Hooker 1874, Kelsey 1942, Kuhn 1980, Muller 1876, Potlog
1940, Regel 1878, 1879, Salmon 1878, Senior 1877, Tschirch 1916, 1918, Tschirch and
Edner 1907a, Tschirch and Oesterle 1900, Varlikh 1901, Wehmer 1911

Rheum orientale Losina - Losinskaya
Cave 1965, Losina - Losinskaya 1936a, b

RHEUM SPECIES (Cont'd)

Rheum ovatum

Rheum palaestinum Feinbr.
Feinbrun 1944, Segal 1964

Rheum palmatum L. *atrosanguineum* - Scarlet sorrel rhubarb
Kelsey 1942

Rheum palmatum L. - true rhubarb
Anton 1980, Appl 1925, Arteaga 1960, Arthur 1902, Beilstein 1882, Bois 1928, J. of Botany 1875, Crantz 1766, Dragendorff 1879, Gartenflora 1878, Haywood 1789, 1790, 1793, 1794, Hedrick 1919, Himmelbaur 1929, Hope 1765, Jones 1797, 1798, Linneaus 1759, Losina - Losinskaya 1936a, b, Mawe 1778, Royle 1856, Salmon 1878, Samuelsson 1936, Thomson 1826, Tschirch 1916

Rheum palmatum rubrum - Red sorrel rhubarb
Kelsey 1942

Rheum palmatum var. *dissectum* (Stapf)
Hoefler 1956

Rheum palmatum var. *palmatum* - Chinese Rhubarb
Cave 1962, 1965, Hofler 1956, Stauffer 1864, Svenska Farmakopen 1946, Wurke 1934

Rheum palmatum var. *tanguticum* Maxim. - Sorrel rhubarb
Am. Pharm. Assoc. 1912, Angewandte Botanik 1924, Backskay 1969, Hoefler 1956, Kelsey 1942, Konon 1978, Krejcik 1977, Regel 1874b, Shavel'skii 1903, Tschirch 1910, 1916, Wehmer 1911

Rheum palmatum L. var. *Palmatum* Tschirch.
Losina - Losinskaya 1936a, b, Tschirch 1916, Tschirch and Oesterle 1900

Rheum persicum Losina - Losinskaya
Losina - Losinskaya 1936a, b

Rheum pichonii Pierre
Pierre 1888-1889

Rheum platylobum
Rechinger 1968

Rheum plicatum A. Losinsk.
Losina - Losinskaya 1931, 1936a, b

Rheum potaninii Losina - Losinskaya
Losina - Losinskaya 1936a, b

Rheum potaninii Losina - Losinskaya
Losina - Losinskaya 1936a, b

Rheum pruinatum
Galle 1978

RHEUM SPECIES (Cont'd)

Rheum przewalskyi Losina - Losinskaya
Losina - Losinskaya 1936a, b

Rheum pumilum Maxim.
Losina - Losinskaya 1936a, b, Samuelsson 1936

Rheum pyramidale ined.
Dragendorff 1898

Rheum racemiferum Maxim.
Losina - Losinskaya 1936a, b, Samuelsson 1936

Rheum reticulatum Losina - Losinskaya
Losina - Losinskaya 1936a, b

Rheum rhabarbarum L.
Cave 1962, Cornarius 1540, Crantz 1766, Dale 1693, Disney 1561, Dragendorff 1898,
Trautvetter 1884

Rheum rhaponticum L. - Garden rhubarb, pie plant, wine plant
Albert 1984, Arnault 1767, Atkins 1972, Augustin 1926, Avall 1976, Baerheim-Svendsen
1953, Baillon 1884, Cave 1962, Christiansen 1944, Cornarius 1540, Crantz 1766, Dale
1693, Disney 1561, Davis 1980, Dittrich 1973, Hance 1875, Haughton 1978, Hedrick
1919, Kindl 1981, Laicharding 1794, Libert 1981, Lindley 1876, Linneaus 1759, Losina -
Losinskaya 1936a, b, Mawe 1778, Muller 1924, Muller 1876, Petkov 1975, Royle 1856,
Tschirch and Edner 1907a, Tulecke 1965, Turrill 1936, Tutin 1964, Watanabe 1935,
Wehmer 1911

Rheum rhizostachyum Schrenk
Losina - Losinskaya 1936a, b

Rheum rhomboideum Losina - Losinskaya
Losina - Losinskaya 1936a, b

Rheum ribes L. - Currant rhubarb
Bois 1928, Cave 1965, Crantz 1766, Feinbrun 1944, Grigoryan 1985, Hedrick 1919,
Linneaus 1759, Losina - Losinskaya 1936a, b, Mawe 1778, Rechinger 1939, Royle 1856,
Toghrol 1976, Trautvetter 1884

Rheum rotundatum Stokes

Rheum rotundifolium Fischer ex Sweet

Rheum rubrifolium Maxim.

Rheum rugosum Desf.

Rheum rupestre Litw. ex. Losina - Losinskaya
Losina - Losinskaya 1936a, b

Rheum russicum ined.
Forshaell 1837

RHEUM SPECIES (Cont'd)

Rheum sanguineum Halens. ex Meisn.
Edman 1929

Rheum scaberrimum Lingelsh.
Losina - Losinskaya 1936a, b

Rheum sibiricum Pall.
Dragendorff 1879, Forshaell 1837

Rhema sinense ined.
Linneaus 1749, Vogel 1975

Rheum songaricum Schrenk - Sungari rhubarb
Kelsey 1942, Meisner 1856

Rheum spiciforme Royle
Am. Pharm. Assoc. 1912, Hocking 1955, Jaretzky 1928, Losina - Losinskaya 1936a, b,
Royle 1856, Samuelsson 1936, Trautvetter 1884

Rheum strictum Franchet
Franchet 1895, Samuelsson 1936

Rheum subacaule Samuelsson
Samuelsson 1936

Rheum sublaneolatum C. Y. Cheng & T. C. Kao

Rheum tanguticum Maxim. ex Balf.
Bykov 1985, Kosuge 1985, Losina - Losinskaya 1936a, b, Luzhetskii 1940, Maheu 1928,
Tschirch 1916, 1918, Vekhov 1978

Rheum tataricum L. f. - Tartarian rhubarb
Cave 1965, Hedrick 1919, Kashkarova 1963, Losina - Losinskaya 1936a, b, Tutin 1964,
Shevelo 1973

Rheum tetragonopus Mart.
Meisner 1856

Rheum tibeticum Maxim.
Hocking 1955, Losina - Losinskaya 1936a, b

Rheum turkestanicum Janisch.
Cave 1965, Losina - Losinskaya 1936a, b, Sokolov 1946, Sveshnikova 1975, Voznesensky
1975, 1977

Rheum undulatum L.
Arkadyeva 1966, Bailey 1943, Cave 1965, Christiansen 1944, Crantz 1766, Gassner
1955, Grene 1953, Hedrick 1919, Hwang 1980, Kim 1973, Lankester 1840, Lindley 1876,
Losina - Losinskaya 1936a, b, Mawe 1778, Munter 1877, Petkov 1975, Royle 1856,
Wehmer 1911

Rheum uninerve Maxim.
Losina - Losinskaya 1936a, b, Samuelsson 1936

RHEUM SPECIES - (Cont'd)

Rheum victoria Hook.

Dragendorff 1898, Dymock 1892, Grene 1953

Rheum webbianum Royle

Chaudhari 1983, Hocking 1955, Losina - Losinskaya 1936a, b, Royle 1856

Rheum wittrockii Lundstr.

Allayarov 1971, Alyukina 1970, Cave 1965, Losina - Losinskaya, 1936a, b, Lundstrom 1914, Tsitsina 1959

Rheum yunnanense Samuelsson

Samuelsson 1936

RHEUM SPECIES - Botanical Names - General

Am. Pharm. Assoc. 1912, Bailey 1943, 1976, Baillon 1872a, 1873, 1876, 1883, 1884, 1891, 1892, Balfour 1879, Batalin 1894, Beatty and Jones 1945, Becker-Dillingen 1924, Berger 1960, Bianchini 1975a, Chin 1947, Chopra 1933, 1956, 1969, Chumbalov 1962, 1966, Coiciu (no date), Darlington 1826, Datta 1945, Diels 1912, Dittrich 1973, Dodoens 1554, Dragendorff 1898, Dress 1964, Drobov 1957, Drozdovskaya 1978, Dutt 1928, Dymock 1892, Edman 1929, Eijken 1904a, b, Farre 1866, Finnis 1966, Fluck 1952, Fluckiger 1873, Forshaell 1837, Franchet 1895, Garden 1874, The Garden 1877, Gardener and Practical Florist 1844, Gardner's Monthly and Hort. 1882, 1884, 1878, Gavrilova 1978, Gentner 1925, Gerth van Wijk 1911, Girenko 1980, Gmelin 1752, Haas 1949, Hartwich 1908, Hawks 1928, Hedrick 1919, Heim 1892, Henneberg 1960, Hill 1772, 1945, Hiller 1975, Holmes 1877b, Holstrom 1921, Hooker 1890, (no date), Isaacson 1979, Jackson 1895, Jaretzky 1928, Kao 1975, Kashkarova 1963, Karsten 1886, Kirtikar 1918, Klimek 1973, Kling 1964, Krause 1970, Krober 1927b, Lankester 1840, Larin 1939, Leistner 1969, 1971, Linnaeus 1753, 1759, 1762, 1967, Losina-Losinskaja 1932, 1936a, 1936b, Marshall Cavendish 1968, 1970, Marthe 1801, Masui 1967, Matsuoka 1970, Maximowicz 1880, Medvedra 1963, 1964, Meisner 1856, Menshchikova 1970, Moorecroft 1916, Morton 1977, Muller 1876, Munter 1879, Nees von Esenbeck 1831, Olsol 1947, Pfeiffer 1874, Pharmaceutische Centralhalle 1888, Pharmaceutische Zeitung 1913, Pittman 1931, Povaliaeva 1981, Reinmuth 1934, Rhind 1870, Romanova 1961, Royle 1839, Samuelsson 1936, Schratz and Schnelle 1964, Sokolskaja 1956, Stapf 1927, 1931, Terrell 1977, Trautvetter 1884, Tschirch 1904b, c, 1926, 1928, Tschirch and Eijken 1904a, Tschirch and Schmitz 1928, Tsitsina 1959, Tunmann 1917, Tyler 1976, Uphof 1968, Usher 1974, Vilmorin-Andrieux 1883, Whitmore 1974, Wigman 1913, Wimmer 1919, Windholz 1976, Zakusov 1937, Wu 1984, Youngken 1951, Zedler 1742, Ziervogel 1752

RHUBARB BUDS (Rhaflower, emerging flower buds consumed as food) -- See **OXALIC ACID - INGESTION - Non-Poisonous, Poisonous - man**

RHUBARB, FALSE -- See **FALSE RHUBARB**

RHUBARB RHIZOME and ROOT -- See **PHARMACOLOGY, PHARMACOGNOSY**

RIBOFLAVIN CONTENT -- See **COMPOSITION - NUTRITIONAL**

RUMICIN (CHRYSOPHANIC ACID) -- See **COMPOSITION - CHEMICAL - ANTHRA-QUINONES**

-S-

SALTS (Oxalic) -- See OXALIC ACID

SAWDUST MULCH -- See MULCH - ORGANIC

SEED SELECTION -- See PROPAGATION - SEED

SEED TESTING

Augustin 1926, Formanowiczowa 1969, Gorski 1977, Graefe 1956, Isley 1965, Jambor 1960, Meyer 1947, Regel 1874, Reinmuth 1934

SEEDING -- See PROPAGATION - SEED

SEEDSTALK ELONGATION -- See BOLTING

SENNOSIDES -- See COMPOSITION - CHEMICAL - Dianthrones

SEXUAL PROPAGATION -- See BREEDING

SHELF LIFE -- See STORAGE

SIZE (Weight, length of petioles) -- See PHYSICAL DIMENSIONS

SLUG CONTROL -- See PEST CONTROL

SLUGS -- See PESTS - MOLLUSKS - Gastropoda

SODIUM CONTENT -- See COMPOSITION - NUTRITIONAL

SOIL(S)

ACIDITY

Ray 1980, Tidsskrift for Planteavl 1954

HEATING

Bjornseth 1946a, Grainger 1933, Sondern 1966, 1975, Vogel 1963a

MINERAL

Chipman 1974a, Jorgensen 1954, Winans 1899

MOISTURE LEVELS

Chipman 1973, 1974b, Werner 1936

ORGANIC

Bassett 1980, Chipman 1974a, Dickson 1962, 1965, Horticulturist 1846, Jasmin 1961, Markarian 1967, Ray 1980

STERILANTS

Delaney 1976

SOLUBLE SOLIDS -- See COMPOSITION - PHYSICAL

SPACING -- See CULTURE - SPACING

SPECIES, *RHEUM* -- See *RHEUM* SPECIES

SPECIFIC HEAT

Daughters 1946

STANDARDS -- See GRADING

STALK SIZE - See PHYSICAL DIMENSIONS

STATISTICS (Area, production, value)

Burt 1982, Commercial Grower 1970a, Joslyn 1929, Loughton 1959, Manchester Guardian 1959, Marshall 1981, Persson 1978, Tesche 1929

STORAGE

Agr. Res. 1967, 1974, Ali 1976, Cook 1960, Grower 1973, Hruschka 1965, 1967a, b, 1971, 1974a, b, Kellogg 1942, Lutz 1968, Market Growers J. 1947, Mohr 1971, Neibauer 1974, Osara 1966b, Robinson 1975, Rowland 1969, Rutherford 1972, 1975, 1976, 1977a, b, Smith 1967, Treptow 1985b, Truscott 1961, Woodmansee 1948

SUGAR CONTENT -- See COMPOSITION - PHYSICAL

SYRUPS -- See PREPARATION/PRESERVATION - JUICES/WINES

-T-

TANNINS -- See COMPOSITION - CHEMICAL - Tannins

TAXONOMY

Aiton 1789, Allayarov 1972a, Baillon 1872b, 1873, 1876, 1883, 1884, 1891, 1892, Bentham 1836, 1883, Blunt 1652, Boerhaave 1710, Carls 1770, Campbell 1940, Chin 1947, Cranz 1766, Darlington 1935, 1945, Diels 1912, Dress 1964, Durante 1636, Engler 1964, Fairbairn 1972, Falkowski 1936, Flora na Narodna 1966, Franchet 1895, Galle 1978, Ginai 1969, Gohil 1986, Green 1823, Grigorjev 1981, Hansel 1962, Harriman 1981, Hartwich 1908, Hegnauer 1969, Heim 1892, Himmelbauer 1929, Holub 1973, Hosseus 1912, Huss 1980, Int'l Union 1978, Isaacson 1979, Ivanova 1961, Jazetzky 1927, 1928, Jones 1928, Jordanov 1966, Karsten 1886, Koningsberger 1893, Konnerth 1930, Laicharding 1794, Lemee 1934, Lindley 1846, 1876, Linnaeus 1753, 1754, 1759, 1762, 1767, 1779, Losina - Losinskaya 1936, Love 1961, Lundstrom 1914, Mallick 1969, Marthe 1801, Mawe 1778, Maximowicz 1880, Meisner 1856, Meisner 1843, Menshchikova 1970, Menshikova 1964, 1970, Munter 1877, Nakai 1919, Nicholson 1887-1889, Nordhagen 1973, Ochse 1931, Os 1957, Paravey 1836, Pasquale 1979, Polezhaeva 1982, Rechinger 1968, Royle 1856, Sandemann 1769, Schnelle 1964, 1966, Schnepf 1968, Schratz 1956, 1957, 1960a, 1960b, 1964, Simmonds 1976, Soc. D'Hort. De Paris 1832, Stapt 1931, Suzaka 1950, Svensk Botanik 1828, Tafel 1908, Tindall 1968, Tropina 1972, Tucakov 1968, Tutin 1964, Webb 1964, Williams 1891, Wodehouse 1931, Woodville 1832, Youngken 1951, Ziervogel 1752

TEMPERATURES, FORCING -- See FORCING

TEMPERATURES, FLOWERING -- See BOLTING

THERAPEUTIC USES -- See PHARMACOLOGY

THESES, DISSERTATIONS (Also see BOOKS, BULLETINS)

Alauzet 1888 (France), Ali 1976 (England), Auer 1859 (Russia), Bellaart 1952a (Netherlands), Bengel 1752 (Switzerland), Benson 1917 (Michigan), Clarion 1803 (France), Collin 1871 (France), Coutela 1869 (France), Cristofolletti 1905 (Germany), Diol 1933 (Michigan), Dye 1901 (Germany), Edner 1907 (Germany), Eijken 1904 (Switzerland), Esteeve (France) 1935, Forest 1956 (New York), Hansel 1953 (Germany), Hammersly 1913 (Wisconsin), Hepler 1922 (Wisconsin), Heuberger 1902 (Germany), Hitchon 1967 (England), Holstein 1718 (in Latin), Jacob 1954 (Switzerland), Kennedy 1754 (Scotland), von Keussler 1879 (Germany), Kling 1961 (Germany), Libert 1980, 1986 (Sweden), Loughton 1960a (England), Maeder 1925 (Switzerland), Meykow 1858 (USSR), Muller 1953 (Germany), Neibauer 1974 (Michigan), Rushmore 1961 (Michigan), Ruszkowski 1913 (Switzerland), Sandemann 1769 (Scotland), Sawicki 1857 (Germany), Scherrer 1941 (Switzerland), Schneider 1933 (Germany), Siegrist 1932 (Switzerland), Steinmann 1916 (Switzerland), Stephanitz 1838, Tiefenau 1924 (Switzerland), Verhaeren 1980 (Belgium), Wedel 1708 (in Latin), Workman 1959 (Utah), Ziervogel 1752 (Sweden), Zwaving 1973 (Netherlands)

THIAMIN CONTENT -- See COMPOSITION - NUTRITIONAL

TISSUE

Rai 1978, Tulecke 1965

TISSUE CULTURE -- See PROPAGATION - RAPID VEGETATIVE

TOXICOLOGY -- See OXALIC ACID - INGESTION - Poisoning

TRACE ELEMENTS

Wu 1984, 1985

TRADE -- See MARKETING

TURMERIC DETECTION IN RHUBARB -- See ADULTERATION

TUMORS -- See ANTI-TUMORIAL EFFECTS

-V-

VARIETY

DESCRIPTION/IDENTIFICATION

Althaus 1946, Am. Pharm. Assoc. 1912, Bailey 1921, 1976, Balazs 1973, Becker-Dillingen 1956, Bianchini 1975a, b, British Pharm. 1973, Burger 1984, Burr 1865, Canciulli 1950, Crang 1947, Commercial Grower 1969, Dechambre 1876, Downing 1857, Durham 1924, Falkowski 1937, Fraser 1966b, Gardeners Mon. and Hort. 1861a, 1861b, Graham 1955c, Grant 1858, Grieve 1970, Hnizdil 1968, Hodges 1924, Int'l Union 1978, J. of Hort. and Cottage Gardener 1891, 1898, John Innes Inst. 1967, Minges 1972, Min. of Agr., Fish. Food 1949, 1981, Hort. News 1955, Mosley 1975, New Jersey Agr. 1954, Nicklow 1970, Orr 1980, Pacific Rural Press 1925, Pennsylvania State Col. 1922, Pownall 1889b, 1898, 1899, 1900, Quinn 1883, Rodenburg 1959, 1960a, b, 1961a, 1963, Rodgers 1839, Rosewarne Exp. Hort. Sta. 1964, Rowland 1969, Royal Hort. Soc. 1931, 1950, 1955, 1960, Saul 1861, Schaffer 1978, Schermerhorn 1949, 1950, 1952, 1954, Sewell 1888, Shaw 1882, Soc. D'Hort. De Paris 1832, Stelling 1936, Stockbridge

VARIETY - DESCRIPTION/IDENTIFICATION (Cont'd)

House Exp. Hort. Sta. 1971, 1973, 1978, 1979, Tindall 1968, Vilmorin-Andrieux 1883, 1885, Wester 1976, Williams 1891, Willis 1937, Wright 1944, 1948a

EVALUATION TRIALS

Agr. Gaz. 1955, Agr. Res. Inst. of Ontario 1970, Alberta Dept. of Agr. 1965, 1966, An Foras 1965, 1966, Bakker 1985, Bassett 1980, Boos 1954, Case 1963, 1964, 1965, 1969, Chipman 1974, 1975, Delaney 1975, 1977, 1978b, Durham 1924, Emmerikh 1986, Findley 1979, Frith 1963, Geiger 1834, Girenko 1973, 1977, Goodman 1962, 1963, 1964, Great Lakes Veg. Growers News 1981, Hausher 1984, Hohere Bundeslehr, Kerr 1965, Kmiecik 1973a, 1974b, 1974c, Lamb 1966, Lamm 1946, Lawson 1958, Loughton 1962, Mahadeva 1972, 1973, Memoria Technica 1975, Minard 1975, 1976a, b, 1977, 1978, Min. of Agr 1984, Nat. Agr. Advisory Service 1962, 1970, Nova Scotia Res. Sta. 1964, 1975, Ontario Dept. Agr. 1962, Pollock 1963, Pownall 1889a, 1900, Ragan 1985, 1986, Reed 1941, Rodenburg 1964, 1965, Rosewarne Exp. Hort. Sta. 1956, 1958, 1959, 1960, 1963, Royal Hort. Soc. 1931, 1955, 1960, Schaller 1940, Scottish Hort. Res. Inst. 1964, Smith 1962, 1964b, Sorge 1962, Stockbridge House Exp. Hort. Sta. 1960, 1971, 1973, 1978, 1979, 1982, Thompson 1894, Tuinbowgewassen 1967, Urban 1971, Walkof 1956, Washington State Univ. 1962, Whitwell 1978, 1979, Wiebe 1963, 1964, Wisconsin Univ. 1948, Wróblewska 1965

GENERAL DISCUSSION

Am. Seed Trade Assoc. 1967, Aujord 1904, Baldrati 1953, Boos 1954, Case 1965, Christiansen 1944, Consumer Reports 1949, Copley 1944, Hammer 1794, Hayes 1790, 1794, Helsel 1981, Imperial Bureau of Plant Breeding and Genetics 1948, Ivanova 1967, Jackson 1958, Kraft 1975, Loughton 1969a, Manitoba Exp. Hort. Sta. 1929, 1938, 1947, 1953, 1956, 1961, Norman 1978, Penney Cyclopaedia 1841, Persson 1975, Petkov 1975, Quebec 1952, Shewell-Cooper 1972, Shoemaker 1947, Robb 1946, Ruitter 1970, Shvalkovska 1963, Taylor 1948, Thuesen 1981, 1982a, b, Wacker 1976, Washington State Univ. 1960, Wott 1977, Zaoostrovskaya 1974

LISTING (Note: many cultivar names are listed below. They are by no means exhaustive. Many, probably most, are lost to the ages because many originated a hundred or more years ago. Some are those grown today and are not in research publications. They are included for sake of completeness of known varieties).

Alexander

Royal Horticultural Soc. 1931

Amstel Seedling

Apple

Shewfelt 1952

The Appleton

Appleton's

Royal Horticultural Soc. 1931

Appleton's Crimson

Appleton's Early

Appleton's Forcing

VARIETY - LISTING (Cont'd)

Appleton's Red
Royal Horticultural Soc. 1931

Appleton's Scarlet

Appleton's Supreme

Appleton's Triumph

Baldry's Scarlet Defiance
J. Hort. and Cottage Gardener 1898b, Pownall 1900

Balentine
Quebec 1952

Balentine
John Innes Inst. 1967

Bedford Scarlet
Royal Horticultural Soc. 1931

Broadleaf
John Innes Inst. 1967

Brook's Seedless

Brown's Red

Brown's Crimson

Bucks Early Red
Royal Horticultural Soc. 1931

Cahoon

Cahoon's

Cahoon's Myatt's Victoria
Saul 1861

Cahoon's Seedling
Quinn 1883

Canada Red
Combs 1947, Robb 1946, Shewfelt 1952

Cawood Castle

Cawood Delight
Whitwell 1986, Schaffer 1978

VARIETY - LISTING (Cont'd)

Cawood Ensign

Cawood Oak

Champagne Red
Christiansen 1944

Champagne Early Red

Cherry Red
Pownall 1900

Chiswick Early Red
Pownall 1900

Clayton's Winter
Vaus 1969

Collis Ruby
Royal Horticultural Soc. 1931

Collis Seedling
Royal Horticultural Soc. 1931

Conqueror

Coulter
Graham 1955c, Robb 1946

Coulter McDonald

Crimson Delicious
Washington State Univ. 1963

Crimson Perfection
Royal Horticultural Soc. 1955

Crimson Queen
Royal Horticultural Soc. 1931, 1955

Crimson Red
The Packer 1985

Crimson Wine

Crimson Winter
Am. Gardening 1900, Branuton 1930, Kraft 1967

Cyclope

Cyclop's
Boos 1972

VARIETY - LISTING (Cont'd)

Dancer's Early Red
Royal Horticultural Soc. 1931

Dancer's Early Scarlet

Davis Champion

Dawe's Challenge

Dawe's Champion
Royal Horticultural Soc. 1955

The Defiance

Detering

Donkere Bloedrede

Donkere Bloedrode Zoet

Downing's Colossal
Little 1848, Saul 1861

Early Albert
Taylor 1948

Early Arizona

Early Cherry

Early Crimson
Royal Horticultural Soc. 1931

Early Mitchell
Royal Horticultural Soc. 1931, 1960

Early Prince Imperial

Early Pontiac

Early Raspberry

Early Raspberry - colored
Boos 1972

Early Red

Early Red Giant Crimson Groveless
Royal Horticultural Soc. 1931

Early Red Seedling

VARIETY - LISTING (Cont'd)

Early Sunrise

Robb 1946, Wright 1948.

Early Superb

Royal Horticultural Soc. 1931, 1955

Edina

Blundstone 1964

Elford

Hopkins 1848

Elmsfeur

Roeder 1948

Elmsjubiläum

Roeder 1948, Schaller 1940

Emperor

Saul 1961

EMU Plains Red

Stephens 1944

Everbearing

Vaus 1969

Fenton's Special

Gard. Chron. 1969, Royal Horticultural Soc. 1931, 1955

Flare

Flambozen Rood

Bakker 1985

Foremost

John Innes Inst 1967

Friigo

Thuesen 1981, 1982b

German Wine

Blundstone 1964

Giant Crimson Groveless

Royal Horticultural Soc. 1931

Giant Crimson Winter

Graham 1955c

VARIETY - LISTING (Cont'd)

Giant Cherry
Graham 1955c

Gillings Early

Glaskin's Perpetual

Glaskin's New Perpetual

Goliath
Ruiter 1971

Greengage

Harris
Loan 1969, Mitchell 1978

Harrison's Seedling
Royal Horticultural Soc. 1931

Hawes

Hawke's Champagne
Saul 1861, Pownall 1900, Royal Horticultural Soc. 1931

Hobday's Giant
Christiansen 1944, Royal Horticultural Soc. 1931

Holstein Bloed (Bloodred)
Rodenburg 1959, 1960b, 1961c, 1964

Holsteiner Blut
Roeder 1948

Honey Red

Hoser's Seedling (Siewka Hosera)
Wroblewska 1965

Hutt's Monarch

Jersey
Schermerhorn 1954

Johnson's St. Martin

K-1
Krieger 1980

VARIETY - LISTING (Cont'd)

Karpow - Lipski

Kmiecik 1974a, 1974b, 1974c

Kelway's Crimson Queen

Downall 1900

Kentville

Larne

Laxton's No. 1

Royal Horticultural Soc. 1931

Laxton's No. 2

Royal Horticultural Soc. 1931

Linnaeus

Graham 1955c, Horticulturalist 1857, Saul 1861

Lister's Cherry Red

Downall 1900

Loherblut Macdonald

Quebec 1952, Royal Horticultural Soc. 1931, 1950, 1955

Magnum Bonum

Malionowy

Falkowski 1937, Kmiecik 1974a, b, c, Wroblewska 1965

Mammoth

De Varies 1907

Marshall's Royal Early

Marshall's Early

Marshall's Early Red

Thuesen 1981, 1982b

McDonald (MacDonald)

Combs 1947, Wright 1948a

McDonald Crimson

McLean's Early

Saul 1861

Merton's Banner

Smith 1964c

VARIETY - LISTING (Cont'd)

Merton's Broadleaf
Smith 1964c

Merton's Foremost
Smith 1964c, Tomlinson 1964

Merton's Yardstick
Smith 1964c

Mitchell's Early Albert
Saul 1861

Mitchell's Grey Eagle
Saul 1861

Mitchell's Royal Albert
Gardener's Chronicle 1846c

Mitchell's Prince Albert

Monarch

Moore's Red-Right-Thru

Moose Range
Wright 1948a

Morse's Early Strawberry

Myatt's Victoria
Hopkins 1848, Little 1848

New Jersey (Jersey)
New Jersey Agr. 1954, Schermerhorn 1949, 1950, 1952, 1954

Ogrskii

Olbrzym
Falkowski 1937

Oregon Giant

Panama
Graham 1955c, Hodges 1924

Paragon
Rodengurg 1960b, Royal Horticultural Soc. 1931

VARIETY - LISTING (Cont'd)

Paragon Scotts Monarch

Paragon II

Pasadena
Graham 1955c

Penn State

Perpetual Rhubarb
Althaus 1946, 1948

Plum Hutt
Shewfelt 1952

Purpurat
Kmiecik 1974a, b, c

Prince Albert
Case 1965, 1966, 1973, Delaney 1975, 1976, Gard. Chron. 1969, 1st. d. Ort. 1972,
Loughton 1963, Tomlinson 1964

Przeworski
Kmiecik 1974a, b, c

Randell's Early Prolific
Saul 1861

Reading Ruby

Red Emperor
Robb 1946

Red Prolific

Red Riverside Giant

Reed's Early Superb
Delaney 1974

Riverside Giant

Rosara
Thuesen 1981, 1982b

Rosenhagen
Rodenburg 1960b, Royal Horticultural Soc. 1931

Royal Red

Ruby
Combs 1947, Robb 1946, Shewfelt 1952, Wright 1948a

VARIETY - LISTING (Cont'd)

Ruby Red

Minister of Agriculture 1959

Salt's Crimson (Perfection)

Saul 1861

Schott's Champion

Christiansen 1944

Seedling

Seedling Early Red

Royal Horticultural Soc. 1931

Senator

Graham 1955c

Shortcake

Robb 1946

Siewka Pulawska

Falkowski 1937

St. Martin's Rhubarb

Sewell 1888

Starkrimson

Kreiger 1980

Stockbridge Arrow

Schaffer 1978

Stockbridge Bingo

Stockbridge Cropper

Stockbridge Emerald

Stone's Ruby

Stott's Monarch

Royal Horticultural Soc. 1931

Strawberry

Royal Horticultural Soc. 1931

The Streeter (Improved)

Royal Horticultural Soc. 1931, 1955

Stuart & Mein's Seedling

Pownall 1900

VARIETY - LISTING (Cont'd)

Sunnybank Special (Woff's Selection)

Tracey 1965

Sunrise

Graham 1955c, Manitoba Exp. Hort. Station 1953, 1961

Early Sunrise

Robb 1946, Wright 1948a

(The) Sutton (Sutton Seedless, Moore's Red-Right-Thru)

Graham 1955c, Pownall 1900, Royal Horticultural Soc. 1931, Shewfelt 1952, Tomlinson 1964

Sydney Crimson (Topps Winter)

New South Wales 1962, Tracey 1956, Vaus 1969

Tai-Hwang

Tukats 1933

Timperley Early

Case 19 Delaney 1st. d. Ort. 1972, Fraser 1966b, Rodenburg 1960a, 1961a, 1963, 1965, Royal Horticultural Soc. 1931, Tomlinson 1964

Tingley Cherry

Tobolsk

Hopkins 1848, Royal Horticultural Soc. 1931

Tobolsk (Buck's Early Red Early Crimson)

Tops (Topp's) Winter -- See Sydney Crimson

Tops Winter

Stephens 1944

Turner's Scarlet Nonparial

Saul 1861

Valentine

Royal Horticultural Soc. 1950, Royal Horticultural Soc. 1955, Walkof 1956, Wright 1948a

Victor of Yaxley

Victoria

Bailey 1956a, Bubel 1972, Royal Horticultural Soc. 1931, Wright 1948a

Victoria XII

Large Victoria

VARIETY - LISTING (Cont'd)

Vindrabarber

Thuesen 1981, 1982b

Vinrabarber Svenborg

Vroege Engelse

Royal Horticultural Soc. 1960

Vroege Spriet

Marnette 1953

Wagner Giant

Wagner's Giant

Wandin Giant

Vaus 1969

Wczesny Hosera

Kmiecik 1974a, b, c

White (Imperial)

Walpers 1853

Woff's Special -- See Sunnybank Special

Yardstick

John Innes Inst. 1967

Zwolle Seedling

Royal Horticultural Soc. 1960

VARIETY PATENTS -- See PATENTS - PLANT VARIETY

VERNALIZATION -- See BOLTING

VIRUS DISEASES -- See DISEASES - VIRAL

VIRUS-FREE RHUBARB -- See PROPAGATION - RAPID VEGETATIVE

VIRUS TESTING -- See DISEASES - VIRAL

VITAMIN CONTENT -- See COMPOSITION - NUTRITIONAL

VOLATILE COMPONENTS -- See COMPOSITION - CHEMICAL - Volatile Components

-W-

WARM CLIMATE PRODUCTION -- See CULTURE - ANNUAL

WATER CONTENT -- See COMPOSITION - PHYSICAL

WEED CONTROL

 BIOLOGICAL CONTROL

 Gorski 1977, Harley 1975, 1979, Julien 1982

 CHEMICAL CONTROL -- See HERBICIDES

WEIGHT (of petiole) -- See PHYSICAL DIMENSIONS

WEIGHT CONTROL -- See APPETITE DEPRESSANT

WILD RHUBARB -- See FALSE RHUBARB

WINE - See PREPARATION/PRESERVATION)

WINE - USED AS A CATALYST OR AN ADDITIVE IN PROCESSING

 Zhao 1981

a

