

A Pigment

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

| Plant | # Chemicals | Total PPM |
|---|-------------|-----------|
| <i>Abelmoschus esculentus</i> Okra | 1 | |
| <i>Abrus precatorius</i> Lucky Bean; Weathervine; Red Beadvine; Crab's Eye; Jequerity; Prayer Beads; Precatory Bean; Rosary Pea; Jequirity Bean; Indian Licorice; Love Bean; Licorice Vine; Weatherplant; Coral Beadplant; Minnie-Minnies | 1 | |
| <i>Abutilon theophrasti</i> Abutilon-Hemp; Velvet Leaf; Indian-Mallow; Butterprint | 2 | |
| <i>Acacia decurrens</i> Green Wattle | 1 | |
| <i>Actinidia chinensis</i> Kiwi | 2 | |
| <i>Aesculus hippocastanum</i> Horse Chestnut | 1 | |
| <i>Ajuga reptans</i> Bugleherb; Bugleweed; Bugle; Blue Bugle; Common Bugle | 2 | |
| <i>Albizia lebeck</i> Lebbek; Lebbek Tree; Women's-Tongue Tree; Frywood; Koko; Siris Tree; East Indian Walnut | 1 | |
| <i>Allium schoenoprasum</i> Chives | 1 | |
| <i>Aloe vera</i> Aloe; Bitter Aloes | 1 | |
| <i>Ammi visnaga</i> Visnaga | 1 | |
| <i>Ananas comosus</i> Pineapple | 1 | |
| <i>Andira araroba</i> Araroba | 1 | |
| <i>Arctostaphylos uva-ursi</i> Uva Ursi; Bearberry | 2 | |
| <i>Asimina triloba</i> Pawpaw | 1 | |
| <i>Astragalus membranaceus</i> Huang Qi; Huang-Chi | 1 | |
| <i>Averrhoa carambola</i> Carambola; Star Fruit | 1 | |
| <i>Berberis vulgaris</i> Barberry | 2 | |
| <i>Beta vulgaris</i> Garden Beet; Sugar Beet; Beet; Beetroot | 3 | |
| <i>Bixa orellana</i> Arnato; Annatto; Bija; Annoto; Annato; Lipsticktree; Achiote; Lipstick Pod | 1 | |
| <i>Borago officinalis</i> Beeplant; Talewort; Borage; Beebread | 2 | |
| <i>Brassica oleracea</i> var. <i>capitata</i> l. Red Cabbage; White Cabbage; Cabbage | 1 | |
| <i>Cassia tora</i> Sickle Senna | 2 | |
| <i>Cassia marilandica</i> Wild Senna | 1 | 2.0 |
| <i>Catharanthus roseus</i> Rosy Periwinkle; Madagascar Periwinkle | 1 | |
| <i>Celosia cristata</i> Cockscomb | 2 | |
| <i>Centaurea cyanus</i> Cornflower; Bachelor's Button | 2 | |
| <i>Cinchona pubescens</i> Quinine; Redbark; Red Peruvian-Bark; Red Cinchona | 1 | |
| <i>Cinnamomum camphora</i> Ho Leaf; Camphor | 1 | |
| <i>Citrus limon</i> Lemon | 1 | |
| <i>Coffea arabica</i> Coffee | 1 | |
| <i>Cola acuminata</i> Abata Cola | 1 | |
| <i>Commiphora wightii</i> Guggul; Indian Bdellium-Tree | 1 | |
| <i>Crocus sativus</i> Saffron | 4 | |
| <i>Diospyros virginiana</i> American Persimmon | 1 | |
| <i>Dodonaea viscosa</i> Hopwood | 1 | |
| <i>Echinacea purpurea</i> Purple-Coneflower; Eastern Purple-Coneflower; Echinacea | 1 | |
| <i>Echinacea pallida</i> Echinacea; Pale Purple-Coneflower; Pale-Flower Echinacea | 1 | |

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|---|-------------|-----------|
| <i>Elettaria cardamomum</i> Cardamom | 1 | 1 |
| <i>Ephedra sinica</i> Ma Huang; Chinese Ephedra | 1 | 1 |
| <i>Eremurus chinensis</i> | 1 | 1 |
| <i>Eriobotrya japonica</i> Loquat | 1 | 1 |
| <i>Erythroxylum coca</i> Coca | 1 | 1 |
| <i>Fagopyrum esculentum</i> Buckwheat | 1 | 1 |
| <i>Fallopia japonica</i> Giant Knotweed; Mexican Bamboo; Hu-Zhang; Japanese Knotweed | 1 | 1 |
| <i>Fragaria</i> spp Strawberry | 1 | 1 |
| <i>Frangula purshiana</i> Cascara Buckthorn; Cascara Sagrada | 1 | 1 |
| <i>Frangula alnus</i> Buckthorn | 1 | 1 |
| <i>Glycine max</i> Soybean | 1 | 1 |
| <i>Glycyrrhiza uralensis</i> Kan-Tsao; Chinese Licorice; Gan-Cao | 1 | 1 |
| <i>Glycyrrhiza glabra</i> Licorice; Licorice-Root; Smooth Licorice; Commom Licorice | 1 | 1 |
| <i>Gossypium</i> sp Cotton | 2 | 2 |
| <i>Helianthus annuus</i> Girasol; Sunflower | 1 | 1 |
| <i>Hibiscus sabdariffa</i> Malventee (Ger.); Rosa de Jamaica (Sp.); Sorrel; Acedera de Guinea (Sp.); Sereni (Sp.); Roselle; Kharkadi; Red Sorrel; Rosella (Ger.); Jamaica Sorrel; Indian Sorrel | 2 | 2 |
| <i>Humulus lupulus</i> Hops | 2 | 2 |
| <i>Hypericum perforatum</i> Klamath Weed; Common St. Johnswort; Goatweed; St. John's-wort; Hypericum | 1 | 1 |
| <i>Ipomoea batatas</i> Sweet Potato | 1 | 1 |
| <i>Juglans regia</i> English Walnut | 1 | 1 |
| <i>Larrea tridentata</i> Chaparral; Creosote Bush | 2 | 2 |
| <i>Laurus nobilis</i> Sweet Bay; Grecian Laurel; Bay; Bayleaf; Laurel; Bay Laurel | 1 | 1 |
| <i>Ligustrum lucidum</i> White Waxtree; Chinese Privet; Ligustri Fructus; Glossy Privet; Privet | 1 | 1 |
| <i>Linum usitatissimum</i> Linseed; Flax | 2 | 2 |
| <i>Liquidambar styraciflua</i> Sweetgum; American Styrax | 2 | 2 |
| <i>Macadamia</i> spp Macadamia | 1 | 1 |
| <i>Magnolia officinalis</i> Magnolia-Bark; Hou Pu; Chinese Magnolia | 1 | 1 |
| <i>Magnolia denudata</i> Hsin-I; Xin-Yi | 1 | 1 |
| <i>Malus domestica</i> Apple | 1 | 1 |
| <i>Malva sylvestris</i> High Mallow | 2 | 2 |
| <i>Mentha x rotundifolia</i> Applemint | 5 | 5 |
| <i>Monarda didyma</i> Beebalm; Oswego Tea | 1 | 1 |
| <i>Morinda citrifolia</i> Noni; Indian Mulberry | 1 | 1 |
| <i>Morus alba</i> White Mulberry; Sang-Pai-Pi | 1 | 1 |
| <i>Musa x paradisiaca</i> Plantain; Banana | 6 | 6 |
| <i>Myristica fragrans</i> nogal moscado (Sp.); nuez moscada (Sp.); Muskatnussbaum (Ger.); Mace; Nutmeg | 2 | 2 |
| <i>Oenothera biennis</i> Evening-Primrose | 1 | 1 |
| <i>Opuntia ficus-indica</i> Nopal; Indian Fig; Prickly Pear; Nopalito | 3 | 3 |
| <i>Origanum vulgare</i> European Oregano; Oregano; Common Turkish Oregano; Wild Oregano; Wild Marjoram; Pot Marjoram | 1 | 1 |
| <i>Oryza sativa</i> Rice | 1 | 1 |
| <i>Paeonia officinalis</i> Double Peony | 1 | 1 |
| <i>Perilla frutescens</i> Perilla | 1 | 1 |

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|--|-------------|-----------|
| <i>Phytolacca americana</i> Pokeweed | 1 | |
| <i>Pisum sativum</i> Pea | 4 | |
| <i>Polygonum multiflorum</i> Chinese Cornbind; He Shou Wu; Chinese Knotweed; Fleeceflower; Fo Ti | 1 | |
| <i>Polygonum aviculare</i> Prostrate Knotweed | 1 | |
| <i>Prunella vulgaris</i> Self-Heal; Heal-All | 2 | |
| <i>Prunus spinosa</i> Sloe; Blackthorn | 1 | |
| <i>Prunus serotina</i> Wild Cherry; Black Cherry | 1 | |
| <i>Prunus laurocerasus</i> Cherry Laurel | 1 | |
| <i>Prunus dulcis</i> Almond | 1 | |
| <i>Prunus domestica</i> Plum | 1 | |
| <i>Prunus cerasus</i> Sour Cherry | 1 | |
| <i>Prunus armeniaca</i> Apricot | 1 | |
| <i>Psidium cattleianum</i> Strawberry Guava | 1 | |
| <i>Pterocarpus marsupium</i> Malabar Kino; bijasal; Indian Kino | 1 | |
| <i>Pueraria montana</i> Kudzu; Kudzu | 2 | |
| <i>Punica granatum</i> Mangrano (Sp.); Granatapfelbaum (Ger.); Romanzeiro (Port.); Grenadier (Fr.); Granado (Sp.); Zakuro (Jap.); Pomegranate; Granatapfelstrauch (Ger.) | 5 | |
| <i>Rheum rhabarbarum</i> Rhubarb | 1 | |
| <i>Rheum palmatum</i> Chinese Rhubarb | 2 | 6380.0 |
| <i>Rheum officinale</i> Chinese Rhubarb | 1 | |
| <i>Rhododendron ponticum</i> Pontic Alpenrose | 2 | |
| <i>Rhododendron dauricum</i> Chinese Alpenrose | 1 | |
| <i>Ribes rubrum</i> White Currant; Red Currant | 1 | |
| <i>Ribes nigrum</i> Black Currant | 3 | |
| <i>Robinia pseudoacacia</i> Black Locust | 1 | |
| <i>Rosa gallica</i> French Rose | 1 | |
| <i>Rosa damascena</i> Damask Rose | 1 | |
| <i>Rosa centifolia</i> Cabbage Rose | 1 | |
| <i>Rubia cordifolia</i> Madder | 1 | |
| <i>Rubus idaeus</i> Red Raspberry; Raspberry | 2 | |
| <i>Rumex crispus</i> Lengua De Vaca; Sour Dock; Curly Dock; Yellow Dock | 2 | |
| <i>Rumex acetosella</i> Sheep Sorrel | 1 | |
| <i>Rumex acetosa</i> Garden Sorrel | 1 | |
| <i>Salix alba</i> White Willow | 2 | |
| <i>Sambucus nigra</i> Black Elder; European Elderberry; Elder; European Elder; European Alder | 1 | |
| <i>Sambucus canadensis</i> Sweet Elder; Elderberry; American Elderberry; American Elder | 1 | |
| <i>Senna occidentalis</i> Coffee Senna | 1 | |
| <i>Senna alexandrina</i> Alexandran senna; True Senna; Indian Senna | 1 | |
| <i>Senna alata</i> Ringworm Bush | 1 | |
| <i>Skimmia arborescens</i> Skimmia | 1 | |
| <i>Solanum tuberosum</i> Potato | 1 | |
| <i>Solanum melongena</i> Eggplant; Aubergine | 2 | |

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|---|-------------|-----------|
| <i>Sorbus aucubaria</i> Rowan Berry | 1 | |
| <i>Spinacia oleracea</i> Spinach | 3 | |
| <i>Theobroma cacao</i> Cacao | 1 | |
| <i>Thespesia populnea</i> Indian tulip tree | 2 | |
| <i>Trifolium pratense</i> Red Clover; Purple Clover; Cowgrass; Peavine Clover | 3 | |
| <i>Vaccinium myrtillus</i> Whortleberry; Dwarf Bilberry; Bilberry | 7 | 2468.0 |
| <i>Vaccinium corymbosum</i> Blueberry | 7 | |
| <i>Viburnum opulus</i> European Cranberry Bush; Snowballbush; Crampbark; Guelder Rose | 1 | |
| <i>Vicia faba</i> Habas; Broadbean; Faba Bean | 1 | 14.0 |
| <i>Viola odorata</i> Common Violet; Sweet Violet | 1 | 106000.0 |
| <i>Vitis vinifera</i> Grape; Grapevine; European Grape; Parra (Sp.); Weinrebe (Ger.); Wine Grape; Vid (Sp.); Vigne Vinifere (Fr.) | 8 | |
| <i>Zea mays</i> Corn | 4 | |
| <i>Zingiber officinale</i> Ginger | 2 | |