

A Hepatocarcinogenic

*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>Achillea millefolium</i> Milfoil; Yarrow	1	
<i>Aconitum napellus</i> Bear's-Foot; Monkshood; Garden Monkshood; Garden Wolfsbane; Aconite; European Aconite; Blue Rocket; Soldier's Cap; Friar's Cap; Queen's Fettle; Turk's Cap; Helmet Flower	1	
<i>Acorus calamus</i> Sweetflag; Calamus; Flagroot; Sweetroot; Myrtle Flag; Sweet Calamus	2	128000.0
<i>Actaea dahurica</i> Xing an sheng ma; Sheng ma	1	
<i>Actaea cimicifuga</i> Sheng ma; Foetid Bugbane; Bugbane	1	
<i>Adonis vernalis</i> Spring Adonis	1	
<i>Agastache rugosa</i>	1	
<i>Agastache foeniculum</i> Giant Hyssop	2	
<i>Agrimonia eupatoria</i> Sticklewort; Agrimony	1	
<i>Albizia lebeck</i> East Indian Walnut; Lebbek Tree; Women's-Tongue Tree; Frywood; Lebbek; Koko; Siris Tree	1	
<i>Allium schoenoprasum</i> Chives	1	
<i>Allium sativum</i> var. <i>sativum</i> Garlic	1	40.0
<i>Allium cepa</i> Shallot; Onion	1	
<i>Allium ampeloprasum</i> Kurrat; Elephant Garlic	1	
<i>Althaea officinalis</i> Marshmallow; White Mallow	1	
<i>Ananas comosus</i> Pineapple	1	
<i>Anethum graveolens</i> Dill; Garden Dill	3	
<i>Angelica sinensis</i> Dang Gui; Dong Quai; Dang Qui; Dong Gui; Dang Quai; Chinese Angelica	1	
<i>Angelica archangelica</i> Angelica; Wild Parsnip; Garden Angelica	1	
<i>Annona muricata</i> Soursop	1	
<i>Apium graveolens</i> Celery	1	
<i>Arachis hypogaea</i> Groundnut; Peanut	1	22.0
<i>Arctium lappa</i> Great Burdock; Gobo; Burdock	1	5000.0
<i>Arctostaphylos uva-ursi</i> Bearberry; Uva Ursi	1	
<i>Armoracia rusticana</i> Horseradish	1	
<i>Arnica montana</i> Leopard's-Bane; Mountain Tobacco	1	
<i>Artemisia dracunculus</i> Tarragon	3	29863.0
<i>Artemisia capillaris</i> Capillary Wormwood	1	
<i>Artemisia abrotanum</i> Southernwood	1	
<i>Asiasarum sieboldii</i> Siebold's Wild Ginger	1	
<i>Asiasarum heterotropoides</i> Asian Wild Ginger	1	
<i>Asimina triloba</i> Pawpaw	1	
<i>Aspalathus linearis</i> Rooibos; Kaffree Tea; Red Bush Tea	1	
<i>Astragalus membranaceus</i> Huang Qi; Huang-Chi	1	
<i>Avena sativa</i> Oats	1	
<i>Ballota nigra</i> Black Horehound	1	
<i>Berberis vulgaris</i> Barberry	1	
<i>Beta vulgaris</i> Garden Beet; Beet; Sugar Beet; Beetroot	1	

Plant	# Chemicals	Total PPM
<i>Boswellia serrata</i> Indian Frankincense; Salaki; Kundur Luban; Indian Olibanum-Tree; Salai; Salai Guggal	1	
<i>Brassica pekinensis</i> Chinese Cabbage	1	22.0
<i>Brassica oleracea</i> var. <i>italica</i> Winter Broccoli; Calabrese; Purple Cauliflower; Heading Broccoli; Broccoli; Cape Broccoli; Sprouting Broccoli; Asparagus Broccoli	1	
<i>Brassica oleracea</i> var. <i>gemmifera</i> Brussels-Sprouts; Brussel-Sprout	1	68.0
<i>Brassica oleracea</i> var. <i>capitata</i> I. White Cabbage; Red Cabbage; Cabbage	1	154.0
<i>Brassica oleracea</i> var. <i>botrytis</i> I. Cauliflower	1	16.0
<i>Brassica nigra</i> Black Mustard	1	
<i>Calendula officinalis</i> Calendula; Pot-Marigold	1	
<i>Camellia sinensis</i> Tea	2	
<i>Cananga odorata</i> Ylang-Ylang; Cananga	1	
<i>Capsicum frutescens</i> Hot Pepper; Spur Pepper; Cayenne; Red Chili; Chili; Tabasco	1	64.0
<i>Capsicum annum</i> Cone Pepper; Cherry Pepper; Sweet Pepper; Paprika; Bell Pepper; Green Pepper	1	22.0
<i>Carica papaya</i> Papaya	1	
<i>Carum carvi</i> Comino de prado (Sp.); Kummel (Ger.); Caraway; Comino (Sp.); Carum	1	
<i>Castanea sativa</i> European Chestnut	1	
<i>Catalpa bignonioides</i> Indian bean	1	
<i>Ceiba pentandra</i> Silk-Cotton Tree; Kapok	1	
<i>Centaurea cyanus</i> Cornflower; Bachelor's Button	1	
<i>Centaurium erythraea</i> Centaury	1	
<i>Chamaemelum nobile</i> Garden Camomile; Perennial Camomile; Roman Camomile	1	
<i>Chenopodium ambrosioides</i> Epazote; Wormseed	1	
<i>Cichorium intybus</i> Chicory; Witloof; Succory	1	1534.0
<i>Cichorium endivia</i> Escarole; Endive	1	
<i>Cimicifuga dahurica</i> Sheng Ma	1	
<i>Cinchona</i> spp Quinine	1	
<i>Cinchona pubescens</i> Redbark; Red Peruvian-Bark; Quinine; Red Cinchona	1	
<i>Cinnamomum verum</i> Cinnamon; Ceylon Cinnamon	4	
<i>Cinnamomum camphora</i> Camphor; Ho Leaf	2	
<i>Cinnamomum aromaticum</i> Chinese Cinnamon; Cassia Lignea; China Junk Cassia; Saigon Cinnamon; Chinese Cassia; Canelero chino (Sp.); Canelle de Cochinchine (Fr.); Cassia Bark; Chinazimt (Ger.); Canela de la China (Sp.); Zimtcassie (Ger.); Kashia-Keihi (Jap.); Chinesischer Zimtbaum (Ger.); Cassia; Cannelier de Chine (Fr.); Cannelier Casse (Fr.)	2	
<i>Citrullus lanatus</i> Watermelon	1	
<i>Citrullus colocynthis</i> Colocynth	1	
<i>Citrus sinensis</i> Orange	1	100.0
<i>Citrus paradisi</i> Grapefruit	1	102.0
<i>Citrus limon</i> Lemon	1	70.0
<i>Clematis vitalba</i> Traveler's Joy	1	
<i>Cnicus benedictus</i> Blessed Thistle	1	
<i>Coccinia grandis</i> Kundree; Tindora; Little Gourd; Kanduri; Pepasan; Ivy Gourd; Tindori	1	
<i>Coffea arabica</i> Coffee	1	
<i>Cola acuminata</i> Abata Cola	1	
<i>Coleus barbatus</i> Forskohl's Coleus	1	

Plant	# Chemicals	Total PPM
<i>Conium maculatum</i> Spotted Parsley; Spotted Hemlock; Poison Hemlock; Hemlock; Carrot Fern; Fool's Parsley	1	
<i>Convallaria majalis</i> Lily-Of-The-Valley	1	
<i>Conyza canadensis</i> Hogweed; Butterweed; Horseweed	1	
<i>Coriandrum sativum</i> Coriander; Chinese Parsley; Cilantro	1	
<i>Corylus americana</i> American Filbert; American Hazel	1	
<i>Crataegus rhipidophylla</i> Hawthorn	1	
<i>Crataegus monogyna</i> Hawthorn; English Hawthorn	1	
<i>Crataegus laevigata</i> Woodland Hawthorn; Whitethorn; Hawthorn; English Hawthorn	1	
<i>Cucumis sativus</i> Cucumber	1	
<i>Cucumis melo</i> Muskmelon; Cantaloupe; Nutmeg Melon; Netted Melon; Melon; Persian Melon	1	
<i>Cucurbita pepo</i> Pumpkin	1	
<i>Cuminum cyminum</i> Cumin	1	60.0
<i>Curcuma longa</i> Indian Saffron; Turmeric	1	10.0
<i>Cyamopsis tetragonoloba</i> Guar; Cluster-Bean; Siam-Bean	1	
<i>Cynara cardunculus</i> Artichoke	1	
<i>Datura stramonium</i> Jimsonweed	1	
<i>Daucus carota</i> Carrot	1	
<i>Dictamnus hispanicus</i>	1	
<i>Dictamnus albus</i> Akgiritotu; Dittany; Gazelotu; Burning Bush; Gas Plant	2	
<i>Digitalis purpurea</i> Purple Foxglove	1	
<i>Dipsacus fullonum</i>	1	
<i>Dodonaea viscosa</i> Hopwood	1	
<i>Echinacea</i> spp Echinacea; Coneflower	1	
<i>Elaeagnus angustifolia</i> Russian Olive; Silver Berry	1	
<i>Elettaria cardamomum</i> Cardamom	1	
<i>Eleutherococcus senticosus</i> Wu jia; Siberian Ginseng; Eleuthero Ginseng; Spiny Ginseng; Ci wu jia (Pinyin)	1	
<i>Ephedra sinica</i> Ma Huang; Chinese Ephedra	1	
<i>Equisetum hyemale</i> Horsetail; Scouring Rush	1	
<i>Equisetum arvense</i> Field Horsetail; Horsetail	1	
<i>Eriobotrya japonica</i> Loquat	1	
<i>Erythroxylum coca</i> Coca	1	
<i>Eucalyptus globulus</i> Tasmanian Bluegum; Blue Gum; Eucalypt	1	
<i>Euphorbia pulcherrima</i> Poinsettia	1	
<i>Euphorbia hirta</i> Queensland Asthma Herb	1	
<i>Euphrasia officinalis</i> Eyebright	1	
<i>Fagopyrum esculentum</i> Buckwheat	1	
<i>Ficus carica</i> Higuera Comun (Sp.); Echte Feige (Ger.); Figuier Commun (Fr.); Higo (Sp.); Fig; Figueira (Port.); Feigenbaum (Ger.); Fico (Ital.)	1	
<i>Foeniculum vulgare</i> Fennel	3	136816.0
<i>Fragaria</i> spp Strawberry	1	68.0
<i>Gaultheria procumbens</i> Creeping Wintergreen; Checkerberry; Mountain Tea; Teaberry; Wintergreen; Wintergrun (Ger.)	1	
<i>Gentiana lutea</i> Gentian; Yellow Gentian	1	
<i>Glechoma hederacea</i> Alehoof	1	

Plant	# Chemicals	Total PPM
<i>Glycine max</i> Soybean	1	8.0
<i>Glycyrrhiza glabra</i> Licorice-Root; Commom Licorice; Licorice; Smooth Licorice	1	2.0
<i>Hamamelis virginiana</i> Witch Hazel	1	20.0
<i>Harpagophytum procumbens</i> Devil's Claw; Grapple Plant	1	
<i>Helianthus annuus</i> Girasol; Sunflower	1	3608.0
<i>Helichrysum angustifolium</i> Everlasting; Immortelle	1	
<i>Hordeum vulgare</i> Barleygrass; Barley	1	
<i>Humulus lupulus</i> Hops	1	
<i>Hyacinthus orientalis</i> Hyacinth	1	0.92
<i>Hypericum perforatum</i> Hypericum; Klamath Weed; Common St. Johnswort; Goatweed; St. John's-wort	1	
<i>Hyssopus officinalis</i> Hyssop	3	1416.0
<i>Illicium verum</i> Star Anise; anis de China (Sp.); Chinesischer Sternanis (Ger.); Chinese Star Anise; anis estrelado (Sp.); Sternanis (Ger.)	3	13000.0
<i>Inonotus obliquus</i>	1	
<i>Ipomoea purga</i> Jalap	1	80000.0
<i>Ipomoea batatas</i> Sweet Potato	1	
<i>Juglans regia</i> English Walnut	1	
<i>Juglans nigra</i> Black Walnut	1	
<i>Juniperus virginiana</i> Red Cedar	2	
<i>Juniperus communis</i> Juniper; Common Juniper	1	
<i>Kalanchoe pinnata</i> Siempre Viva; Air Plant	1	
<i>Lactuca sativa</i> Lettuce	1	
<i>Laurus nobilis</i> Laurel; Bayleaf; Sweet Bay; Bay; Grecian Laurel; Bay Laurel	1	
<i>Levisticum officinale</i> Lovage	1	
<i>Ligustrum japonicum</i> Ligustri Fructus; Japanese Privet	1	
<i>Limonia acidissima</i> Elephant Apple; Manzana De Elefante; Wood-Apple	1	
<i>Lycopersicon esculentum</i> Tomato	1	12.0
<i>Lycopodium clavatum</i> Clubmoss; Antler Herb	1	
<i>Lycopus virginicus</i> Bugle	1	
<i>Lycopus europeus</i> European Bugle	1	
<i>Magnolia officinalis</i> Hou Pu; Chinese Magnolia; Magnolia-Bark	1	
<i>Magnolia kobus</i> Hsin-I; Xin-Yi	2	
<i>Magnolia fargesii</i> Hsin-I; Xin-Yi	1	
<i>Magnolia denudata</i> Xin-Yi; Hsin-I	1	
<i>Malus domestica</i> Apple	1	2540.0
<i>Marrubium vulgare</i> White Horehound; Horehound	1	
<i>Matricaria recutita</i> Annual Camomile; German Camomile; Wild Camomile	1	
<i>Medicago sativa</i> Alfalfa; Lucerne	1	
<i>Melia azedarach</i> Chinaberry	1	
<i>Melilotus officinalis</i> Yellow Sweetclover	1	
<i>Melissa officinalis</i> Melissa; Bee Balm; Lemonbalm; Balm	1	
<i>Mentha x rotundifolia</i> Applemint	1	
<i>Mentha x piperita</i> Peppermint	1	

Plant	# Chemicals	Total PPM
<i>Menyanthes trifoliata</i> Marsh Trefoil; Bogbean; Buckbean; Water Trefoil; Marsh Clover; Bog Myrtle	1	
<i>Micromeria myrtifolia</i> Dagcayi; Haydarotu; Topukcayi	1	
<i>Micromeria congesta</i> Kaya Yarpuzu	1	
<i>Moringa oleifera</i> Ben Nut; Moringa; West Indian Ben; Horseradish Tree; Drumstick Tree; Benzolive Tree; Jacinto (Sp.)	1	
<i>Morus alba</i> White Mulberry; Sang-Pai-Pi	1	
<i>Myristica fragrans</i> Nutmeg; Mace; nogal moscado (Sp.); nuez moscada (Sp.); Muskatnussbaum (Ger.)	2	5440.0
<i>Myrtus communis</i> Myrtle; Myrte (Ger.); Mirto (Sp.); Arrayan (Sp.)	1	176.0
<i>Nicotiana tabacum</i> Tobacco	1	
<i>Ocimum tenuiflorum</i> Anise-Scented Basil	2	
<i>Ocimum sanctum</i> Holy Basil; Tulsi	1	
<i>Ocimum gratissimum</i> Shrubby Basil; Agbo	2	
<i>Ocimum canum</i> Hoary Basil	1	
<i>Ocimum basilicum</i> Basil; Cuban Basil; Sweet Basil	4	74460.0
<i>Oenothera biennis</i> Evening-Primrose	1	
<i>Olea europaea</i> Olive	1	
<i>Origanum vulgare</i> Wild Oregano; Wild Marjoram; Oregano; European Oregano; Common Turkish Oregano; Pot Marjoram	2	14120.0
<i>Origanum majorana</i> Sweet Marjoram; Marjoram	3	1100.0
<i>Panax ginseng</i> Korean Ginseng; Oriental Ginseng; Ginseng; Chinese Ginseng	1	
<i>Papaver somniferum</i> Opium Poppy; Poppyseed Poppy	1	
<i>Perilla frutescens</i> Perilla	1	
<i>Persea americana</i> Avocado	3	
<i>Petroselinum crispum</i> Parsley	2	3.2
<i>Peucedanum ostruthium</i> Masterwort	1	
<i>Phaseolus vulgaris</i> Black Bean; String Bean; Flageolet Bean; Wax Bean; Kidney Bean; Green Bean; Field Bean; Navy Bean; Popping Bean; Haricot Bean; Dwarf Bean; Snap Bean; French Bean; Haricot Vert; Garden Bean; Pop Bean; Haricot	1	
<i>Pimenta racemosa</i> Bayrum Tree; West Indian Bay	2	23225.0
<i>Pimenta dioica</i> Clover-Pepper; Allspice; Jamaica-Pepper; Pimenta; Pimento	1	6.0
<i>Pimpinella anisum</i> Anise; Sweet Cumin	3	2100.0
<i>Pinus sylvestris</i> Scotch Pine	2	
<i>Piper nigrum</i> White Pepper; Pepper; Black Pepper	2	
<i>Piper cubeba</i> Cubeb Pepper; Cubeb	1	
<i>Piper betel</i> Betel Pepper	1	12260.0
<i>Piper auritum</i> Hoja Santa; Cordoncillo; Hierba Santa	1	
<i>Pisum sativum</i> Pea	1	
<i>Plantago major</i> Common Plantain	1	
<i>Polypodium vulgare</i> Common Polypody; Sweet Fern	1	
<i>Portulaca oleracea</i> Purslane; Verdolaga	1	
<i>Prunus spinosa</i> Blackthorn; Sloe	1	
<i>Prunus serotina</i> Black Cherry; Wild Cherry	1	
<i>Prunus persica</i> Peach	1	
<i>Prunus laurocerasus</i> Cherry Laurel	1	
<i>Prunus dulcis</i> Almond	1	
<i>Prunus domestica</i> Plum	1	

Plant	# Chemicals	Total PPM
<i>Prunus cerasus</i> Sour Cherry	1	
<i>Prunus armeniaca</i> Apricot	1	
<i>Pteridium aquilinum</i> Bracken Fern; Bracken	1	
<i>Punica granatum</i> Mangrano (Sp.); Granatapfelstrauch (Ger.); Grenadier (Fr.); Zakuro (Jap.); Granado (Sp.); Pomegranate; Granatapfelbaum (Ger.); Romanzeiro (Port.)	1	
<i>Pyrus communis</i> Pear	1	39400.0
<i>Raphanus sativus</i> Radish	1	182.0
<i>Ravensara aromatica</i> Ravensara	1	
<i>Rheum rhabarbarum</i> Rhubarb	1	16.0
<i>Rheum palmatum</i> Chinese Rhubarb	1	
<i>Rheum officinale</i> Chinese Rhubarb	1	
<i>Rhododendron ponticum</i> Pontic Alpenrose	1	
<i>Ribes nigrum</i> Black Currant	1	
<i>Rosa canina</i> Rose; Dog Rose; Dogbrier	1	
<i>Rosmarinus officinalis</i> Rosemary	2	190.0
<i>Rubus idaeus</i> Raspberry; Red Raspberry	1	
<i>Salvia</i> sp. Chia	1	
<i>Salvia officinalis</i> Sage	1	
<i>Sambucus simpsonii</i> Simpson's elderberry	1	
<i>Sambucus nigra</i> Black Elder; European Alder; European Elder; European Elderberry; Elder	1	
<i>Sanguisorba minor</i> Small Burnet	1	
<i>Santolina chamaecyparissus</i> Lavender Cotton	1	
<i>Sassafras albidum</i> Sassafras	1	97000.0
<i>Satureja montana</i> Winter Savory; Savory	1	
<i>Satureja hortensis</i> Summer Savory	1	
<i>Scopolia carniolica</i> Scopolia	1	
<i>Senna obtusifolia</i> Sicklepod	1	
<i>Sesamum indicum</i> Ajonjoli (Sp.); Sesame; Beni; Sesamo (Sp.); Benneseed	1	
<i>Solanum tuberosum</i> Potato	1	1680.0
<i>Solanum torvum</i> Susumba; Wild Eggplant	1	
<i>Solanum melongena</i> Aubergine; Eggplant	1	
<i>Solidago virgaurea</i> European Goldenrod; Woundwort	1	
<i>Solidago gigantea</i> Early Goldenrod	1	
<i>Sophora japonica</i> Japanese Pagoda Tree	1	
<i>Sorbus aucubaria</i> Rowan Berry	1	
<i>Spartium junceum</i> Weaver's Broom; Spanish Broom; Genet	1	
<i>Spinacia oleracea</i> Spinach	1	
<i>Stachys officinalis</i> Bishop's-Wort; Purple Betony; Wood Betony; Betony	1	10000.0
<i>Stellaria media</i> Chickweed; Common Chickweed	1	
<i>Symphytum officinale</i> Comfrey	1	
<i>Syzygium aromaticum</i> Clove; Clovetree	1	
<i>Tagetes patula</i> French Marigold	1	
<i>Tagetes lucida</i> Sweet-Mace; Sweet-Scent Mexican Marigold; Sweet-Scent Marigold; Anise Marigold	1	

Plant	# Chemicals	Total PPM
<i>Tagetes filifolia</i> Irish Lace; Pampa Anise	1	
<i>Tamarindus indica</i> Tamarind; Indian Tamarind; Kilytree	1	
<i>Tanacetum vulgare</i> Tansy	1	
<i>Taraxacum officinale</i> Dandelion	1	
<i>Taxus baccata</i> Common Yew	1	
<i>Tecoma stans</i> Yellow Elder	1	
<i>Teucrium scorodonia</i> Wood Germander; Germander	1	
<i>Teucrium chamaedrys</i> Wall Germander	1	
<i>Theobroma cacao</i> Cacao	1	
<i>Thymus vulgaris</i> Common Thyme; Garden Thyme; Thyme	1	33800.0
<i>Thymus serpyllum</i> Creeping Thyme	1	12400.0
<i>Tilia</i> sp. Basswood; Lime; Linden	1	
<i>Trifolium pratense</i> Cowgrass; Purple Clover; Red Clover; Peavine Clover	2	
<i>Triticum aestivum</i> Wheat	1	8.0
<i>Umbellularia californica</i> California Bay	1	
<i>Urtica dioica</i> European Nettle; Stinging Nettle	1	
<i>Vaccinium vitis-idaea</i> Lingen; Cowberry; Lingonberry	1	
<i>Vaccinium myrtillus</i> Whortleberry; Bilberry; Dwarf Bilberry	1	
<i>Vaccinium corymbosum</i> Blueberry	1	
<i>Valeriana officinalis</i> Garden-Heliotrope; Valerian; Common Valerian	1	
<i>Verbena officinalis</i> Vervain	1	20000.0
<i>Viburnum opulus</i> Crampbark; Guelder Rose; Snowballbush; European Cranberry Bush	1	
<i>Vicia faba</i> Broadbean; Faba Bean; Habas	1	
<i>Viscum album</i> European Mistletoe	1	
<i>Vitis vinifera</i> Weinrebe (Ger.); Grapevine; Vigne Vinifere (Fr.); Vid (Sp.); Parra (Sp.); European Grape; Wine Grape; Grape	1	
<i>Zea mays</i> Corn	1	1.4
<i>Zingiber officinale</i> Ginger	1	