

A Hepatotonic

*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
Acacia nilotica Babul	1	
Acacia catechu Catechu; Black Cutch	1	
Achillea millefolium Yarrow; Milfoil	2	2640.0
Acinos suaveolens	1	
Acorus calamus Sweetflag; Flagroot; Myrtle Flag; Sweetroot; Calamus; Sweet Calamus	1	200.0
Adonis vernalis Spring Adonis	1	
Aesculus hippocastanum Horse Chestnut	1	
Agastache pallidiflora	1	
Agrimonia eupatoria Sticklewort; Agrimony	1	
Allium cepa Shallot; Onion	1	
Aloysia citrodora Lemon Verbena	1	840.0
Alpinia officinarum Chinese Ginger; Lesser Galangal	1	
Alpinia galanga Siamese Ginger; Languas; Greater Galangal	1	
Amomum compactum Siam Cardamom; Round Cardamom; Chester Cardamom; Java Cardamom	1	
Anethum graveolens Dill; Garden Dill	1	
Apium graveolens Celery	1	
Arachis hypogaea Groundnut; Peanut	1	
Arbutus unedo Strawberry Tree; Arbutus	1	
Arctostaphylos uva-ursi Bearberry; Uva Ursi	1	
Ardisia japonica Marlberrry	1	
Artemisia vulgaris Mugwort	1	
Artemisia salsoloides	1	
Artemisia herba-alba Desert Wormwood	1	
Artemisia dracuncululus Tarragon	1	1000.0
Artemisia cina Levant Wormseed	1	48000.0
Artemisia annua Sweet Annie; Annual Wormwood (GRIN); Annual Mugwort (GRIN); Qinghao; Sweet Wormwood (GRIN)	1	13200.0
Azadirachta indica Neem	1	
Belamcanda chinensis Shenan; Blackberry Lily; Iris Tigre (Fr.); Leopard Lily; Mariposa (Sp.); Leopardenblume (Ger.); Maravilla (Sp.)	1	
Brassica oleracea var. italica Broccoli; Sprouting Broccoli; Purple Cauliflower; Heading Broccoli; Cape Broccoli; Asparagus Broccoli; Winter Broccoli; Calabrese	1	
Brassica oleracea var. botrytis l. Cauliflower	1	
Calamintha nepeta Turkish Calamint	1	
Callicarpa americana Beauty Berry; American Beauty Berry; French Mulberry	1	
Camellia sinensis Tea	1	
Capsicum frutescens Spur Pepper; Tabasco; Red Chili; Cayenne; Chili; Hot Pepper	1	
Carum carvi Kummel (Ger.); Comino (Sp.); Caraway; Carum; Comino de prado (Sp.)	1	
Chamaemelum nobile Garden Camomile; Perennial Camomile; Roman Camomile	1	
Chrysanthemum x morifolium Ju Hua (Pinyin); Mum; Chrysanthemum; Florist's Chrysanthemum	1	
Chrysanthemum parthenium Feverfew	1	

Plant	# Chemicals	Total PPM
<i>Chrysanthemum balsamita</i> Balsamite; Costmary	1	
<i>Cichorium intybus</i> Witloof; Chicory; Succory	1	
<i>Cinnamomum verum</i> Ceylon Cinnamon; Cinnamon	1	1600.0
<i>Cinnamomum camphora</i> Ho Leaf; Camphor	1	6288.0
<i>Cinnamomum aromaticum</i> Cassia Lignea; Chinazimt (Ger.); Cannelier Casse (Fr.); Chinese Cassia; Zimtcassie (Ger.); Chinese Cinnamon; Canelero chino (Sp.); Saigon Cinnamon; Cannelier de Chine (Fr.); Cassia; Kashia-Keihi (Jap.); China Junk Cassia; Chinesischer Zimtbaum (Ger.); Canela de la China (Sp.); Cassia Bark; Canelle de Cochinchine (Fr.)	1	
<i>Citrullus colocynthis</i> Colocynth	1	
<i>Citrus reticulata</i> Mandarin; Tangerine	1	152.0
<i>Citrus aurantiifolia</i> Lime	1	140.0
<i>Cleonia lusitanica</i> Spanish Heal-All	1	
<i>Commiphora wightii</i> Indian Bdellium-Tree; Guggul	1	
<i>Coriandrum sativum</i> Coriander; Cilantro; Chinese Parsley	1	
<i>Corylus avellana</i> English Filbert; Cobnut; Hazel; European Filbert; European Hazel	1	
<i>Crataegus rhipidophylla</i> Hawthorn	1	
<i>Crataegus laevigata</i> Woodland Hawthorn; English Hawthorn; Whitethorn; Hawthorn	1	
<i>Crocus sativus</i> Saffron	1	
<i>Cuminum cyminum</i> Cumin	1	276.0
<i>Cunila origanoides</i> Frost Mint; American Dittany; Stone Mint; Frost Flower; Dittany; Mountain Dittany; Maryland Dittany	1	56.0
<i>Curcuma zedoaria</i> Zedoary; Shoti	1	3840.0
<i>Curcuma xanthorrhiza</i> Javan Turmeric; Temu Lawak	1	
<i>Curcuma longa</i> Indian Saffron; Turmeric	2	96695.0
<i>Cymbopogon citratus</i> West Indian Lemongrass; Lemongrass	1	
<i>Cynara cardunculus</i> Artichoke	4	1300.0
<i>Cyperus rotundus</i> Nutsedge	1	
<i>Datura stramonium</i> Jimsonweed	1	
<i>Daucus carota</i> Carrot	1	
<i>Dracocephalum thymiflora</i> Thyme-Flowered Moldavica	1	268.0
<i>Echinacea</i> spp Echinacea; Coneflower	1	
<i>Echinacea angustifolia</i> Echinacea; Narrow Leaf Purple-Coneflower; Narrow Leaf Echinacea	1	
<i>Elettaria cardamomum</i> Cardamom	1	112000.0
<i>Elsholtzia polystachya</i> Bush Mint	1	
<i>Elsholtzia pilosa</i> Hairy Mint Shrub	1	
<i>Elsholtzia cristata</i> Furan Chemotype	1	
<i>Elsholtzia blanda</i> Bantulsi; Bantaluki	1	
<i>Equisetum arvense</i> Field Horsetail; Horsetail	2	
<i>Erythroxylum coca</i> Coca	1	
<i>Eschscholzia californica</i> California Poppy	1	
<i>Eucalyptus viridis</i>	1	
<i>Eucalyptus tetraptera</i>	1	
<i>Eucalyptus tereticornis</i>	1	
<i>Eucalyptus stoatei</i>	1	
<i>Eucalyptus sparsa</i>	1	

Plant	# Chemicals	Total PPM
Eucalyptus sp Gum	1	
Eucalyptus sideroxylon	1	
Eucalyptus siderophloia	1	
Eucalyptus saligna	1	
Eucalyptus punctata	1	
Eucalyptus porosa	1	
Eucalyptus populnea	1	
Eucalyptus polyanthemos	1	
Eucalyptus paniculata	1	
Eucalyptus oviformis	1	
Eucalyptus odorata	1	
Eucalyptus ochrophloia	1	
Eucalyptus occidentalis	1	
Eucalyptus nova-anglica New England 'peppermint'	1	
Eucalyptus moluccana	1	
Eucalyptus melliodora	1	
Eucalyptus melanophloia	1	
Eucalyptus maideni	1	
Eucalyptus maculata Gum	1	
Eucalyptus leucoxylon	1	
Eucalyptus largisparsa	1	
Eucalyptus lansdowneana	1	
Eucalyptus intertexta	1	
Eucalyptus incrassata	1	
Eucalyptus globulus Blue Gum; Tasmanian Bluegum; Eucalypt	2	63000.0
Eucalyptus forrestiana	1	
Eucalyptus fasciculosa	1	
Eucalyptus erythrandra	1	
Eucalyptus dolichorhyncha	1	
Eucalyptus diversicolor	1	
Eucalyptus desquamata	1	
Eucalyptus dealbata	1	
Eucalyptus cuprea	1	
Eucalyptus cladocalyx	1	
Eucalyptus citriodora Lemon-Scented Gum; Spotted Gum; Citron-Scented Gum; Lemon Eucalyptus	1	7160.0
Eucalyptus ceratocorys	1	
Eucalyptus camaldulensis	1	
Eucalyptus bridgesiana Bridges' Eucalyptus	1	
Eucalyptus brassiana Brasses' Eucalyptus	1	
Eucalyptus botryoides	1	
Eucalyptus bosistoana	1	
Eucalyptus blakelyi	1	

Plant	# Chemicals	Total PPM
<i>Eucalyptus behriana</i>	1	
<i>Eucalyptus astringens</i>	1	
<i>Eucalyptus angulosa</i>	1	
<i>Eucalyptus albens</i>	1	
<i>Fagopyrum esculentum</i> Buckwheat	1	
<i>Fallopia japonica</i> Giant Knotweed; Mexican Bamboo; Japanese Knotweed; Hu-Zhang	1	
<i>Foeniculum vulgare</i> Fennel	3	600.0
<i>Fragaria</i> spp Strawberry	1	
<i>Galega officinalis</i> Galega; Goat's Rue	1	
<i>Ginkgo biloba</i> Ginkgo; Maidenhair Tree	1	
<i>Glechoma hederacea</i> Alehoof	1	74.0
<i>Glycine max</i> Soybean	2	
<i>Hamamelis virginiana</i> Witch Hazel	1	
<i>Hedeoma reverchonii</i> Reverchon's Pennyroyal	1	894.0
<i>Hedeoma pulegioides</i> American Pennyroyal	1	60.0
<i>Hedeoma drummondii</i> Drummond's Pennyroyal	1	4684.0
<i>Helianthus annuus</i> Girasol; Sunflower	1	
<i>Hibiscus sabdariffa</i> Kharkadi; Acedera de Guinea (Sp.); Rosa de Jamaica (Sp.); Roselle; Rosella (Ger.); Sereni (Sp.); Red Sorrel; Sorrel; Malventee (Ger.); Indian Sorrel; Jamaica Sorrel	2	
<i>Houttuynia cordata</i> Fishwort; Yu Xing Cao; Dokudami	2	
<i>Humulus lupulus</i> Hops	1	
<i>Hypericum perforatum</i> St. John's-wort; Goatweed; Hypericum; Klamath Weed; Common St. Johnswort	1	
<i>Hyptis suaveolens</i> Wild Hops	1	9110.0
<i>Hyssopus officinalis</i> Hyssop	1	1220.0
<i>Illicium verum</i> anis estrellado (Sp.); anis de China (Sp.); Sternanis (Ger.); Star Anise; Chinesischer Sternanis (Ger.); Chinese Star Anise	1	7000.0
<i>Iris x germanica</i> Orris	1	
<i>Iris versicolor</i> Blue Flag	1	
<i>Isanthus brachiatus</i> False Pennyroyal	1	
<i>Juglans regia</i> English Walnut	1	
<i>Juniperus sabina</i> Sabine	1	
<i>Juniperus macropoda</i> Himalayan Juniper; Indian Juniper	1	
<i>Juniperus communis</i> Common Juniper; Juniper	1	
<i>Lantana camara</i> Lantana; Wild Sage	1	
<i>Laurus nobilis</i> Bay Laurel; Grecian Laurel; Sweet Bay; Bayleaf; Laurel; Bay	2	39800.0
<i>Lavandula x intermedia</i> Lavandin; Dutch Lavender	1	2220.0
<i>Lavandula x hybrida</i> Hybrid Lavender	1	
<i>Lavandula latifolia</i> Broad-Leaved Lavender; Aspic; Spike Lavender	1	6868.0
<i>Lavandula angustifolia</i> English Lavender	1	
<i>Leonurus cardiaca</i> Motherwort	1	
<i>Lepechinia calycina</i> Epling's Lepechinia	1	1970.0
<i>Levisticum officinale</i> Lovage	1	
<i>Lindera benzoin</i> Fieberstrauch (Ger.); Wild Allspice; Spicebush; Benjamin Bush	1	

Plant	# Chemicals	Total PPM
<i>Lippia alba</i> White Lippia	1	
<i>Liquidambar styraciflua</i> Sweetgum; American Styrax	1	
<i>Litsea glaucescens</i> Mexican bay	1	
<i>Lupinus albus</i> White Lupine	1	
<i>Lycopersicon esculentum</i> Tomato	3	
<i>Lycopus virginicus</i> Bugle	1	36.0
<i>Magnolia denudata</i> Xin-Yi; Hsin-I	1	
<i>Malus domestica</i> Apple	3	
<i>Melaleuca</i> sp Tea-Tree	1	
<i>Melaleuca cajuputi</i> Vietnamese Cajuput Oil	1	
<i>Melaleuca alternifolia</i> Teatree	1	
<i>Melia azedarach</i> Chinaberry	1	
<i>Mentha x piperita</i> Peppermint	1	4390.0
<i>Mentha spicata</i> Hortela da Folha Miuda; Spearmint	1	18750.0
<i>Mentha pulegium</i> European Pennyroyal	1	40.0
<i>Mentha longifolia</i> Biblical Mint	2	21860.0
<i>Mentha arvensis</i> var. <i>piperascens</i> Field Mint; Japanese Mint; Cornmint	1	
<i>Mentha aquatica</i> Water Mint	1	
<i>Micromeria thymifolia</i>	1	
<i>Micromeria teneriffae</i>	1	
<i>Micromeria myrtifolia</i> Dagcayi; Haydarotu; Topukcayi	1	
<i>Micromeria fruticosa</i> Zopha; Tea Hyssop; Zuta	1	
<i>Micromeria congesta</i> Kaya Yarpuzu	1	
<i>Moldavica thymiflora</i> Thyme-Flowered Moldavica	1	
<i>Monarda russeliana</i> Russel's Monarda	1	650.0
<i>Monarda punctata</i> Horsemint	1	13728.0
<i>Monarda media</i> Mean Monarda	1	2702.0
<i>Monarda lindheimeri</i> Lindheimer's Monarda	1	956.0
<i>Monarda fistulosa</i> Wild Bergamot	1	10012.0
<i>Monarda didyma</i> Oswego Tea; Beebalm	1	5614.0
<i>Monarda clinopodia</i> Clinopod Bergamot	1	2766.0
<i>Monarda citriodora</i> Lemon Mint	1	1228.0
<i>Morus alba</i> Sang-Pai-Pi; White Mulberry	1	
<i>Musa x paradisiaca</i> Banana; Plantain	2	
<i>Myristica fragrans</i> Mace; nogal moscado (Sp.); Nutmeg; Muskatnussbaum (Ger.); nuez moscada (Sp.)	1	9120.0
<i>Myrtus communis</i> Myrtle; Myrte (Ger.); Arrayan (Sp.); Mirto (Sp.)	1	4130.0
<i>Nepeta racemosa</i> Catmint	1	
<i>Nerium oleander</i> Oleander	1	
<i>Nicotiana tabacum</i> Tobacco	2	
<i>Ocimum tenuiflorum</i> Anise-Scented Basil	1	
<i>Ocimum kilimandscharicum</i> African Blue Basil; Kenyan Perennial Basil	1	
<i>Ocimum gratissimum</i> Shrubby Basil; Agbo	1	

Plant	# Chemicals	Total PPM
Ocimum canum Hoary Basil	1	
Ocimum basilicum Sweet Basil; Basil; Cuban Basil	1	911.0
Ononis spinosa Restharrow; Spiny Restharrow; Hauhechel (Ger.)	1	
Opuntia ficus-indica Nopal; Prickly Pear; Nopalito; Indian Fig	1	
Origanum vulgare Green Turkish Oregano	1	192.0
Origanum sipyleum Bayircayi; Guveyoto	1	
Origanum onites Oregano; Pot Marjoram	1	46.0
Origanum minutiflorum Small-Flowered Oregano	1	
Parthenocissus quinquefolia American-ivy; Woodbine; Virginia-creeper; Five-leaf-ivy; Amerika-zuta (Jap.)	1	
Petroselinum crispum Parsley	1	
Peumus boldus Boldo	1	80000.0
Phyllanthus niruri Seed On The Leaf	1	
Pimenta racemosa Bayrum Tree; West Indian Bay	1	1360.0
Pimenta dioica Allspice; Jamaica-Pepper; Pimenta; Clover-Pepper; Pimento	2	102.0
Pinus sylvestris Scotch Pine	1	
Piper nigrum Black Pepper; Pepper; White Pepper	2	
Piper cubeba Cubeb; Cubeb Pepper	1	2800.0
Piper auritum Hierba Santa; Hoja Santa; Cordoncillo	1	
Pisum sativum Pea	2	
Plumeria acutifolia Frangipani	1	
Polygonum hydropiper Common Smartweed	1	
Polygonum aviculare Prostrate Knotweed	1	
Prunella vulgaris Self-Heal; Heal-All	1	
Prunus spinosa Blackthorn; Sloe	1	
Prunus persica Peach	1	
Prunus dulcis Almond	1	
Prunus cerasus Sour Cherry	1	
Prunus armeniaca Apricot	1	
Psidium guajava Guava	1	
Pycnanthemum virginianum Virginia Mountain Mint	1	116.0
Pycnanthemum verticillatum Whorled Mountain Mint	1	84.0
Pycnanthemum torreyi Torrey's Mountain Mint	1	20.0
Pycnanthemum tenuifolium Slenderleaf Mountain Mint	1	2200.0
Pycnanthemum setosum Setose Mountain Mint	1	14198.0
Pycnanthemum pycnanthemoides Typical Mountain Mint	1	232.0
Pycnanthemum pilosum Pilose Mountain Mint	1	140.0
Pycnanthemum muticum Muticous Mountain Mint	1	100.0
Pycnanthemum montanum Montane Mountain Mint	1	1440.0
Pycnanthemum loomisii Loomis' Mountain Mint	1	52080.0
Pycnanthemum incanum Hoary Mountain Mint	1	152.0
Pycnanthemum clinopodioides Clinopod Mountain Mint	1	176.0
Pycnanthemum californicum California Mountain Mint	1	1152.0

Plant	# Chemicals	Total PPM
<i>Pycnanthemum beadlei</i> Beadle's Mountain Mint	1	56.0
<i>Pycnanthemum albescens</i> White Mountain Mint	1	540.0
<i>Quercus velutina</i> Black Oak	1	
<i>Quercus alba</i> White Oak	1	
<i>Ravensara aromatica</i> Ravensara	1	
<i>Rheum palmatum</i> Chinese Rhubarb	1	
<i>Rhus coriaria</i> Sumac; Tanner's Sumac; Sicilian Sumac	1	
<i>Ribes nigrum</i> Black Currant	2	
<i>Ricinus communis</i> Castorbean	2	
<i>Rosa multiflora</i> Multiflora Rose	1	
<i>Rosa gallica</i> French Rose	1	
<i>Rosa damascena</i> Damask Rose	1	
<i>Rosa centifolia</i> Cabbage Rose	1	
<i>Rosa canina</i> Dog Rose; Dogbrier; Rose	1	
<i>Rosmarinus x mendizabalii</i> Mendizabali's Rosemary	1	
<i>Rosmarinus x lavandulaceus</i> Lavender Rosemary	1	
<i>Rosmarinus tomentosus</i> Hairy Rosemary	1	
<i>Rosmarinus officinalis</i> Rosemary	2	16250.0
<i>Rosmarinus eriocalyx</i> Rosemary	1	
<i>Rumex crispus</i> Curly Dock; Lengua De Vaca; Sour Dock; Yellow Dock	1	
<i>Ruscus aculeatus</i> Box-Holly; Butcher's Broom	1	
<i>Salvia triloba</i> Greek Sage	1	37200.0
<i>Salvia sclarea</i> Clary Sage	1	
<i>Salvia officinalis</i> Sage	1	12576.0
<i>Salvia dorisiana</i> 'Honduran' Sage	1	
<i>Sassafras albidum</i> Sassafras	1	
<i>Satureja subspicata</i> Yugoslav Savory	1	
<i>Satureja parvifolia</i> Small-Leaf Pampa Savory	1	
<i>Satureja odora</i> Scented Pampa Savory	1	
<i>Satureja montana</i> Winter Savory; Savory	1	
<i>Satureja hortensis</i> Summer Savory	1	
<i>Satureja douglasii</i> Douglas' Savory	1	390.0
<i>Satureja cuneifolia</i> Cuneate Turkish Savory	1	
<i>Satureja cilicica</i> Turkish Savory	1	
<i>Sideritis pauli</i> El Molinillo Sideritis	1	
<i>Sideritis mugronensis</i>	1	
<i>Sideritis germanicolpitana</i>	1	
<i>Sideritis athoa</i> Kedi Kuyrugu Cayi	1	
<i>Solidago virgaurea</i> Woundwort; European Goldenrod	1	
<i>Solidago gigantea</i> Early Goldenrod	1	
<i>Spinacia oleracea</i> Spinach	1	
<i>Stachys germanica</i> Downy Woundwort	1	96.0

Plant	# Chemicals	Total PPM
<i>Stevia rebaudiana</i> Ca-A-E; Stevia; Sweet Leaf of Paraguay	2	
<i>Tagetes minuta</i> Aztec Marigold; Dwarf Marigold; Stinking-Roger; Muster John Henry; Mexican Marigold; Wild Marigold	1	250.0
<i>Tagetes lucida</i> Sweet-Scent Marigold; Anise Marigold; Sweet-Scent Mexican Marigold; Sweet-Mace	1	
<i>Tagetes erecta</i> Marigold; Aztec Marigold	1	86.0
<i>Tanacetum vulgare</i> Tansy	1	2600.0
<i>Tanacetum parthenium</i> Feverfew	1	
<i>Telosma cordata</i> Merrill flowers	1	
<i>Teucrium scorodonia</i> Germander; Wood Germander	1	
<i>Teucrium salviastrum</i>	1	
<i>Teucrium pseudoscorodonia</i>	1	
<i>Teucrium polium</i> Iberian Golden Germander; Golden Germander	1	
<i>Teucrium oxylepis</i>	1	
<i>Teucrium micropodioides</i> Small 'Cyprus' Germander	1	
<i>Teucrium kotschyianum</i> Stavros Kotschy's Germander	1	
<i>Teucrium gnaphalodes</i> Iberian Germander	1	
<i>Teucrium divaricatum</i> Hoary Divaricate Germander	1	
<i>Teucrium cyprium</i> 'Cyprus' Germander	1	
<i>Teucrium asiaticum</i>	1	
<i>Teucrium arduini</i> 'Croatian Alpine' Germander	1	
<i>Theobroma cacao</i> Cacao	2	
<i>Thuja occidentalis</i> Northern White-Cedar; Arbor-Vitae	1	
<i>Thymus zygis</i> Spanish Thyme	1	
<i>Thymus x citriodorus</i> Funk's thyme; Lemon Thyme	1	
<i>Thymus serpyllum</i> Creeping Thyme	1	76.0
<i>Thymus mastichina</i> Spanish Marjoram	1	15000.0
<i>Thymus longicaulis</i> Tas Kekik; Kekik	1	
<i>Thymus funkii</i> Funk's Thyme	1	
<i>Thymus cilicicus</i> 'Anatolian' Thyme	1	
<i>Thymus capitatus</i> Spanish Thyme; Spanish Origanum; 'Sicilian' Thyme	1	60.0
<i>Tilia</i> sp. Basswood; Linden; Lime	1	
<i>Tragopogon porrifolius</i> Salsify	1	
<i>Trifolium pratense</i> Cowgrass; Red Clover; Purple Clover; Peavine Clover	1	
<i>Trigonella foenum-graecum</i> Greek Hay; Greek Clover; Bockshornklee (Ger.); Fenugreek; Alholva (Sp.)	1	
<i>Turnera diffusa</i> Damiana	1	2200.0
<i>Umbellularia californica</i> California Bay	1	18720.0
<i>Urginea maritima</i> European Squill	1	
<i>Urtica dioica</i> Stinging Nettle; European Nettle	2	
<i>Vaccinium myrtillus</i> Dwarf Bilberry; Whortleberry; Bilberry	1	
<i>Vaccinium macrocarpon</i> American Cranberry; Cranberry; Large Cranberry	1	
<i>Vaccinium corymbosum</i> Blueberry	2	
<i>Valeriana officinalis</i> Garden-Heliotrope; Valerian; Common Valerian	1	
<i>Vetiveria zizanioides</i> Vetiver; Cus-Cus; Cuscus Grass	1	

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Vicia faba Habas; Faba Bean; Broadbean	1	
Vitex agnus-castus Chaste-Tree	1	
Vitis vinifera Weinrebe (Ger.); Vigne Vinifere (Fr.); European Grape; Grapevine; Vid (Sp.); Grape; Parra (Sp.); Wine Grape	3	
Zea mays Corn	2	
Zingiber officinale Ginger	1	5490.0