

**Dr. Duke's Phytochemical and Ethnobotanical Databases**

**List of Plants for Insectifuge**

Plants with Activity Synergy	Chemical Count	Total PPM
Abelmoschus moschatus	1	
Abelmoschus esculentus	5	338510.0
Abies spectabilis	6	
Abies sachalinensis	3	22320.0
Abies balsamea	4	19190.0
Abies alba	9	6298.0
Abrus precatorius	2	
Abutilon theophrasti	2	
Acacia nilotica	3	
Acacia farnesiana	13	22.0
Acacia decurrens	1	
Acalypha indica	1	
Acanthopanax gracilistylis	1	
Achillea moschata	2	4536.0
Achillea millefolium	36	17340.0
Acinos suaveolens	17	
Acinos alpinus	8	
Aconitum napellus	2	
Acorus calamus	16	9614.0
Acrocomia totai	2	
Actaea racemosa	3	
Actaea dahurica	2	
Actaea cimicifuga	3	
Actinidia chinensis	1	2.0
Adonis vernalis	3	
Aegle marmelos	4	
Aeolanthus myriantha	4	

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Aesculus hippocastanum</i>	3	
<i>Aframomum melegueta</i>	1	
<i>Agastache urticifolia</i>	5	7892.0
<i>Agastache rugosa</i>	5	
<i>Agastache pallidiflora</i>	1	
<i>Agastache nepetoides</i>	6	
<i>Agastache foeniculum</i>	9	
<i>Agathosma betulina</i>	10	5538.0
<i>Ageratum conyzoides</i>	9	
<i>Agrimonia eupatoria</i>	6	4.8
<i>Ajuga iva</i>	1	
<i>Akebia quinata</i>	2	
<i>Albizia lebbek</i>	3	
<i>Aleurites moluccana</i>	3	1282451.2
<i>Aleurites fordii</i>	1	180000.0
<i>Alisma plantago-aquatica</i>	1	
<i>Alliaria petiolata</i>	2	127600.0
<i>Allium schoenoprasum</i>	6	76524.0
<i>Allium sativum</i> var. <i>sativum</i>	11	1404.8
<i>Allium cepa</i>	9	8944.8
<i>Allium ampeloprasum</i>	5	49.6
<i>Alocasia macrorrhiza</i>	1	7.8
<i>Aloe vera</i>	3	1.6
<i>Aloysia citrodora</i>	17	4466.0
<i>Alpinia officinarum</i>	9	800.0
<i>Alpinia galanga</i>	16	24008.0
<i>Althaea officinalis</i>	7	2.0

Plants with Activity Synergy	Chemical Count	Total PPM
Amaranthus spinosus	1	
Amaranthus sp.	1	14.0
Ammi visnaga	1	
Ammi majus	1	
Amomum xanthioides	4	
Amomum compactum	10	
Amorphophallus konjac	2	
Amorphophallus campanulatus	1	5.6
Amphicarpaea bracteata	2	
Anabasis aphylla	1	
Anacardium occidentale	7	1311881.2
Anamirta cocculus	2	11232.0
Ananas comosus	7	27756.0
Anethum graveolens	26	235564.0
Angelica sinensis	8	
Angelica archangelica	22	14656.0
Annona squamosa	6	10.0
Annona reticulata	3	10.0
Annona muricata	2	9.6
Annona glabra	1	
Annona diversifolia	1	
Annona cherimola	3	432008.0
Anthriscus cerefolium	1	137800.0
Apium graveolens	27	2005965.0
Apocynum cannabinum	1	
Aquilegia vulgaris	2	161400.0
Arachis hypogaea	8	1375453.0

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Aralia spinosa</i>	1	
<i>Aralia cordata</i>	9	1132.0
<i>Arctium lappa</i>	8	5022.0
<i>Arctostaphylos uva-ursi</i>	5	2.0
<i>Areca catechu</i>	3	83523.8
<i>Argemone mexicana</i>	2	548800.0
<i>Arisaema consanguineum</i>	1	
<i>Aristolochia serpentaria</i>	1	
<i>Armoracia rusticana</i>	3	6.0
<i>Arnica montana</i>	5	
<i>Arracacia xanthorrhiza</i>	1	4.8
<i>Artemisia vulgaris</i>	11	24.0
<i>Artemisia salsoloides</i>	16	
<i>Artemisia pallens</i>	2	
<i>Artemisia herba-alba</i>	9	3730.0
<i>Artemisia dracunculul</i>	21	27151.0
<i>Artemisia cina</i>	2	48000.0
<i>Artemisia capillaris</i>	2	
<i>Artemisia annua</i>	21	35900.0
<i>Artemisia absinthium</i>	4	3500.0
<i>Artemisia abrotanum</i>	4	60000.0
<i>Artocarpus heterophyllus</i>	1	6.0
<i>Artocarpus altilis</i>	4	8.0
<i>Asarum canadense</i>	5	
<i>Asclepias syriaca</i>	3	432480.0
<i>Asiasarum sieboldii</i>	2	
<i>Asiasarum heterotropoides</i>	3	

Plants with Activity Synergy	Chemical Count	Total PPM
Asimina triloba	5	61599.706
Aspalathus linearis	4	
Asparagus officinalis	5	26890.0
Astragalus membranaceus	4	
Astrocaryum vulgare	1	
Avena sativa	8	32.2
Averrhoa carambola	1	
Averrhoa bilimbi	1	
Azadirachta indica	5	570600.0
Bactris gasipaes	3	
Balanites aegyptiacus	2	710000.0
Ballota nigra	7	78.0
Barosma betulina	8	5538.0
Basella alba	2	14.0
Benincasa hispida	4	82570.0
Berberis vulgaris	3	20.0
Bertholletia excelsa	4	1444820.0
Beta vulgaris	9	15984.8
Betula sp.	1	
Betula lenta	2	11976.0
Bidens pilosa	1	
Bixa orellana	3	
Blighia sapida	1	22.0
Boehmeria nivea	2	18.6
Borago officinalis	4	18.0
Boronia megastigma	1	
Boswellia serrata	7	

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Boswellia sacra</i>	3	
<i>Brassica rapa</i>	4	5920.0
<i>Brassica pekinensis</i>	2	34.0
<i>Brassica oleracea</i> var. <i>viridis</i> L.	3	9.5
<i>Brassica oleracea</i> var. <i>sabellica</i> L.	5	30780.0
<i>Brassica oleracea</i> var. <i>italica</i>	8	
<i>Brassica oleracea</i> var. <i>gemmifera</i>	5	9250.0
<i>Brassica oleracea</i> var. <i>capitata</i> L.	12	13067.2
<i>Brassica oleracea</i> var. <i>botrytis</i> L.	10	24513.6
<i>Brassica oleracea</i>	5	7575.04
<i>Brassica nigra</i>	6	13857.32
<i>Brassica napus</i> var. <i>napobrassica</i>	4	16618.0
<i>Brassica chinensis</i>	3	22670.0
<i>Bromelia pinguin</i>	1	7.6
<i>Brosimum alicastrum</i>	1	
<i>Bryonia alba</i>	4	
<i>Bupleurum chinense</i>	2	
<i>Bursera delpechiana</i>	3	3840.0
<i>Buxus sempervirens</i>	2	
<i>Byrsonima crassifolia</i>	1	
<i>Caesalpinia pulcherrima</i>	1	
<i>Cajanus cajan</i>	5	50026.8
<i>Calamintha nepeta</i>	18	
<i>Calathea macrosepala</i>	1	
<i>Calea zacatechichi</i>	1	
<i>Calendula officinalis</i>	7	501000.68
<i>Callicarpa americana</i>	11	

Plants with Activity Synergy	Chemical Count	Total PPM
Calotropis sp.	3	614000.0
Camellia sinensis	21	12100.0
Camellia japonica	2	
Cananga odorata	8	
Canarium indicum	4	854684.0
Canavalia ensiformis	1	37.2
Canna indica	1	2.0
Cannabis sativa	6	608607.4
Capparis tomentosa	1	
Capparis spinosa	3	339755.44
Capsella bursa-pastoris	2	42.4
Capsicum frutescens	17	18848.0
Capsicum annuum	22	66968.4
Carapa guianensis	1	
Carica pentagona	1	
Carica papaya	13	426691.2
Carthamus tinctorius	10	1376128.6
Carum carvi	19	480926.0
Carya illinoensis	3	17.8
Casearia arborea	1	
Casimiroa edulis	1	
Cassia tora	1	58608.0
Castanea sativa	1	
Catalpa ovata	1	
Catalpa bignonioides	3	
Catha edulis	1	1.0
Caulophyllum thalictroides	3	18.6

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Cedrus libani</i>	1	
<i>Cedrus deodora</i>	2	84930.0
<i>Ceiba pentandra</i>	4	
<i>Celosia cristata</i>	1	
<i>Centaurea cyanus</i>	6	
<i>Centaurea calcitrapa</i>	3	
<i>Centaurium erythraea</i>	5	
<i>Centella asiatica</i>	12	28.0
<i>Ceratonia siliqua</i>	5	150000.0
<i>Chamaelirium luteum</i>	2	
<i>Chamaemelum nobile</i>	12	1.6
<i>Chelidonium majus</i>	1	
<i>Chenopodium ambrosioides</i>	9	18558.0
<i>Chenopodium album</i>	2	24.0
<i>Chimaphila umbellata</i>	1	
<i>Chiococca alba</i>	1	
<i>Chondrus crispus</i>	1	4.6
<i>Chrysanthemum x morifolium</i>	15	
<i>Chrysanthemum parthenium</i>	17	8.2
<i>Chrysanthemum coronarium</i>	1	36.4
<i>Chrysanthemum cinerariifolium</i>	1	
<i>Chrysanthemum balsamita</i>	7	
<i>Chrysophyllum cainito</i>	1	
<i>Cicer arietinum</i>	4	119762.0
<i>Cichorium intybus</i>	10	29378.0
<i>Cichorium endivia</i>	5	26758.0
<i>Cimicifuga racemosa</i>	3	116.0



Plants with Activity Synergy	Chemical Count	Total PPM
<i>Cimicifuga dahurica</i>	2	
<i>Cinchona</i> spp	1	
<i>Cinchona pubescens</i>	2	
<i>Cinnamomum verum</i>	27	28466.0
<i>Cinnamomum camphora</i>	19	447377.0
<i>Cinnamomum aromaticum</i>	19	2.0
<i>Cistus ladaniferus</i>	14	87360.0
<i>Citrullus lanatus</i>	8	798578.0
<i>Citrullus colocynthis</i>	12	
<i>Citrus sinensis</i>	24	31093.019999999997
<i>Citrus reticulata</i>	23	33035.399999999994
<i>Citrus paradisi</i>	20	25383.0
<i>Citrus mitis</i>	6	
<i>Citrus medica</i>	1	
<i>Citrus limon</i>	20	162.0
<i>Citrus aurantium</i>	21	21298.0
<i>Citrus aurantiifolia</i>	18	37258.0
<i>Cleistocalyx fullageri</i>	1	
<i>Clematis vitalba</i>	2	
<i>Cleonia lusitanica</i>	15	
<i>Cnicus benedictus</i>	10	504005.4
<i>Cnidoscolus chayamansa</i>	1	30.0
<i>Coccinia grandis</i>	2	
<i>Cocos nucifera</i>	7	155306.0
<i>Coffea arabica</i>	8	205604.0
<i>Coix lacryma-jobi</i>	3	6.4
<i>Cola acuminata</i>	2	2.0

Plants with Activity Synergy	Chemical Count	Total PPM
Colchicum autumnale	2	
Coleus barbatus	1	
Collinsonia canadensis	5	36.0
Colocasia esculenta	4	52582.0
Commiphora wightii	1	
Commiphora myrrha	3	
Conium maculatum	2	
Convallaria majalis	3	
Conyza canadensis	3	476.0
Copaifera spp	1	961200.0
Coptis spp	1	
Coptis japonica	1	
Coptis chinensis	1	
Corchorus olitorius	5	236061.6
Coriandrum sativum	23	414244.0
Coridothymus capitatus	15	
Cornus mas	2	
Corylus avellana	3	1183012.0
Corylus americana	1	
Crataegus rhipidophylla	6	
Crataegus pentagyna	1	
Crataegus monogyna	4	
Crataegus laevigata	6	
Crataegus cuneata	1	
Crescentia alata	2	15.2
Crocus sativus	17	8.0
Croton tiglium	2	560000.0

Plants with Activity Synergy	Chemical Count	Total PPM
Croton lechleri	10	
Croton eluteria	10	
Cryptostegia grandifolia	2	142690.0
Cryptotaenia japonica	1	
Cucumis sativus	11	2170021.2
Cucumis melo	9	2737792.8
Cucurbita spp	4	19950.0
Cucurbita pepo	10	1186534.4
Cucurbita maxima	2	559630.0
Cucurbita foetidissima	5	
Cuminum cyminum	18	66370.0
Cunila origanoides	11	49084.0
Curcuma zedoaria	2	3840.0
Curcuma xanthorrhiza	2	
Curcuma longa	19	108321.0
Cyamopsis tetragonoloba	4	
Cyclanthera pedata	1	16.0
Cydonia oblonga	5	3.8
Cymbopogon winterianus	8	11758.0
Cymbopogon parkeri	4	16216.0
Cymbopogon nardus	11	13668.0
Cymbopogon martinii	4	9500.0
Cymbopogon flexuosus	6	10000.0
Cymbopogon citratus	8	4472.0
Cynara cardunculus	7	7442.0
Cyperus rotundus	5	
Cyphomandra betacea	1	14.0

Plants with Activity Synergy	Chemical Count	Total PPM
Cyrtosperma chamissonis	1	2.4
Cytisus scoparius	4	61920.0
Daemonorops draco	1	
Daphne genkwa	1	
Datura stramonium	5	462000.0
Datura metel	1	146000.0
Daucus carota	27	634108.0
Dianthus caryophyllus	3	
Dictamnus hispanicus	1	
Dictamnus albus	9	
Digitalis purpurea	4	
Dioscorea sp.	1	7.0
Dioscorea pentaphylla	4	4974.0
Dioscorea alata	2	2.8
Diospyros virginiana	2	
Dipsacus fullonum	4	
Dipteryx odorata	4	37500.0
Dodonaea viscosa	3	307570.0
Dracocephalum thymiflora	7	1396.0
Dracocephalum parviflora	2	420.0
Drimys winteri	2	
Durio zibethinus	1	
Echinacea spp	12	141.2
Echinacea purpurea	4	
Echinacea pallida	5	
Echinacea angustifolia	7	
Elaeagnus umbellatus	1	

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Elaeagnus commutata</i>	1	
<i>Elaeagnus angustifolia</i>	3	
<i>Elaeis oleifera</i>	1	
<i>Elaeis guineensis</i>	4	
<i>Eleocharis dulcis</i>	1	
<i>Elettaria cardamomum</i>	20	410534.0
<i>Eleutherococcus senticosus</i>	3	
<i>Elsholtzia polystachya</i>	16	
<i>Elsholtzia pilosa</i>	11	
<i>Elsholtzia nipponica</i>	3	
<i>Elsholtzia eriostachya</i>	3	
<i>Elsholtzia densa</i>	2	
<i>Elsholtzia cristata</i>	7	
<i>Elsholtzia blanda</i>	12	
<i>Elytrigia repens</i>	4	
<i>Ephedra sinica</i>	12	94.0
<i>Equisetum hyemale</i>	2	
<i>Equisetum arvense</i>	4	
<i>Eriobotrya japonica</i>	5	3.6
<i>Eruca sativa</i>	7	
<i>Eryngium foetidum</i>	2	
<i>Eryngium floridanum</i>	1	12.0
<i>Erythrina fusca</i>	1	18.0
<i>Erythrina crista-galli</i>	2	233120.0
<i>Erythrina berteroana</i>	1	24.0
<i>Erythrophleum suaveolens</i>	1	
<i>Erythroxyllum novogranatense</i>	1	2600.0

Plants with Activity Synergy	Chemical Count	Total PPM
Erythroxylum coca	4	366.0
Eschscholzia californica	1	
Eucalyptus viridis	13	
Eucalyptus tetraptera	8	
Eucalyptus tereticornis	14	
Eucalyptus stoatei	8	
Eucalyptus sparsa	13	
Eucalyptus sp	2	
Eucalyptus sideroxylon	14	
Eucalyptus siderophloia	16	
Eucalyptus saligna	13	
Eucalyptus punctata	14	
Eucalyptus porosa	13	
Eucalyptus populnea	14	
Eucalyptus polyanthemos	16	
Eucalyptus paniculata	8	
Eucalyptus oviformis	16	
Eucalyptus odorata	13	
Eucalyptus ochrophloia	13	
Eucalyptus occidentalis	16	
Eucalyptus nova-anglica	7	
Eucalyptus moluccana	16	
Eucalyptus melliodora	16	
Eucalyptus melanophloia	13	
Eucalyptus maideni	16	
Eucalyptus maculata	15	
Eucalyptus leucoxyton	13	

Plants with Activity Synergy	Chemical Count	Total PPM
Eucalyptus largisparsa	13	
Eucalyptus lansdowneana	13	
Eucalyptus intertexta	13	
Eucalyptus incrassata	8	
Eucalyptus globulus	22	63000.0
Eucalyptus forrestiana	8	
Eucalyptus fasciculosa	13	
Eucalyptus erythrandra	8	
Eucalyptus dolichorhyncha	8	
Eucalyptus diversicolor	16	
Eucalyptus desquamata	13	
Eucalyptus dealbata	16	
Eucalyptus cuprea	13	
Eucalyptus cladocalyx	16	
Eucalyptus citriodora	22	51600.0
Eucalyptus ceratocorys	8	
Eucalyptus camaldulensis	16	
Eucalyptus bridgesiana	9	
Eucalyptus brassiana	18	
Eucalyptus botryoides	16	
Eucalyptus bosistoana	16	
Eucalyptus blakelyi	15	
Eucalyptus behriana	13	
Eucalyptus astringens	16	
Eucalyptus angulosa	8	
Eucalyptus albens	16	
Eucommia ulmoides	3	

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Eugenia uniflora</i>	2	
<i>Eugenia floribunda</i>	1	
<i>Eugenia brasiliensis</i>	1	
<i>Euodia rutaecarpa</i>	1	
<i>Euonymus atropurpureus</i>	1	
<i>Eupatorium triplinerve</i>	2	
<i>Eupatorium perfoliatum</i>	1	
<i>Euphorbia pulcherrima</i>	2	
<i>Euphorbia lathyris</i>	3	765000.0
<i>Euphorbia hirta</i>	5	
<i>Euphrasia officinalis</i>	3	8.6
<i>Fagopyrum esculentum</i>	6	38574.0
<i>Ferula jaeschkeana</i>	1	19000.0
<i>Ferula gummosa</i>	8	
<i>Ferula assa-foetida</i>	4	
<i>Ficus carica</i>	15	355228.6
<i>Filipendula ulmaria</i>	2	
<i>Foeniculum vulgare</i>	22	434900.0
<i>Fragaria spp</i>	9	377884.0
<i>Frangula purshiana</i>	2	
<i>Fucus vesiculosus</i>	3	
<i>Galeopsis tetrahit</i>	1	80.0
<i>Ganoderma lucidum</i>	2	
<i>Garcinia mangostana</i>	1	
<i>Gardenia jasminoides</i>	3	
<i>Gaultheria procumbens</i>	4	15840.0
<i>Gaultheria fragrantissima</i>	1	



Plants with Activity Synergy	Chemical Count	Total PPM
Genipa americana	1	2.4
Gentiana lutea	2	52.8
Ginkgo biloba	8	48624.0
Glechoma hederacea	14	200.0
Gleditsia triacanthos	1	
Gliricidia sepium	1	34.0
Gloriosa superba	2	
Glycine max	14	520982.0
Glycyrrhiza glabra	15	1142.2
Gossypium sp	8	350202.4
Guaiacum sp.	1	
Guarea rusbyi	1	
Harpagophytum procumbens	4	
Hedeoma reverchonii	10	12804.0
Hedeoma pulegioides	13	58320.0
Hedeoma hispida	9	2196.0
Hedeoma drummondii	11	50620.0
Hedera helix	3	231660.0
Hedychium flavum	6	
Helianthus tuberosus	1	20.0
Helianthus annuus	21	1315682.0
Helichrysum angustifolium	3	
Hemidesmus indicus	1	
Hesperis matronalis	5	
Hibiscus sabdariffa	10	30.0
Hibiscus rosa-sinensis	1	
Hierochloe odorata	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Hippophae rhamnoides	3	
Holarrhena pubescens	2	454200.0
Hordeum vulgare	10	77320.0
Houttuynia cordata	10	
Humulus lupulus	15	59.8
Huperzia spp	1	
Hura crepitans	1	
Hyacinthus orientalis	8	364.24
Hydnocarpus wightiana	1	82220.0
Hydnocarpus kurzii	1	146000.0
Hydrastis canadensis	2	5.2
Hylocereus undatus	1	
Hylocereus guatemalensis	1	
Hyoscyamus niger	3	712648.0
Hypericum perforatum	18	
Hyptis suaveolens	14	10930.0
Hyssopus officinalis	27	37033.1
Ilex paraguariensis	1	
Illicium verum	17	29288.0
Inga feuillei	1	
Inga edulis	1	
Inonotus obliquus	1	
Inula helenium	3	
Ipomoea purga	1	80000.0
Ipomoea batatas	6	9823.800000000001
Ipomoea aquatica	1	18.0
Iris x germanica	5	

Plants with Activity Synergy	Chemical Count	Total PPM
Iris versicolor	1	
Isanthus brachiatus	7	1860.0
Isatis tinctoria	2	353280.0
Jasminum officinale	6	1274.0
Jatropha curcas	3	723840.0
Juglans regia	8	1486130.0
Juglans nigra	8	8.0
Juglans cinerea	3	1127746.0
Juniperus virginiana	7	
Juniperus sabina	10	
Juniperus oxycedrus	1	
Juniperus communis	24	31416.4
Justicia pectoralis	1	5.4
Justicia adhatoda	2	320900.0
Kaempferia galanga	2	
Kalanchoe pinnata	3	
Lablab purpureus	3	15852.0
Lactuca scariola	2	668660.0
Lactuca sativa	6	22682.6
Lagenaria siceraria	5	871563.0
Lantana camara	16	3200.0
Larrea tridentata	4	10.2
Laurus nobilis	27	61374.0
Lavandula x intermedia	19	9408.0
Lavandula x hybrida	12	
Lavandula sp	1	
Lavandula latifolia	19	19638.0

Plants with Activity Synergy	Chemical Count	Total PPM
Lavandula angustifolia	13	13500.0
Lawsonia inermis	2	156360.0
Ledum palustre	1	
Lens culinaris	5	41068.0
Lentinus edodes	2	
Leonotis nepetaefolia	2	581400.0
Leonotis leonurus	6	
Leonurus cardiaca	6	466.0
Lepechinia schiediana	4	6880.0
Lepechinia calycina	16	8670.0
Lepidium sativum	4	402605.0
Lepidium meyenii	3	
Leptospermum polygalifolium	1	
Levisticum officinale	22	1560.0
Licania platypus	1	
Ligustrum lucidum	2	
Ligustrum japonicum	9	
Limonia acidissima	1	
Lindera benzoin	11	
Linum usitatissimum	5	440003.6
Lippia graveolens	2	
Lippia dulcis	1	
Lippia alba	5	
Liquidambar styraciflua	2	
Litsea glaucescens	12	
Lobelia inflata	2	6.4
Lonicera japonica	7	

Plants with Activity Synergy	Chemical Count	Total PPM
Lophophora williamsii	1	
Luffa aegyptiaca	5	757430.0
Lupinus mutabilis	1	16.6
Lupinus albus	4	211994.0
Lycium chinense	2	15.4
Lycium barbarum	1	
Lycopersicon esculentum	14	37756.0
Lycopodium selago	1	
Lycopodium clavatum	4	600000.0
Lycopus virginicus	10	2668.0
Lycopus uniflorus	5	658.0
Lycopus europeus	5	420.0
Lythrum salicaria	1	
Macadamia spp	4	2221238.0
Maclura pomifera	3	
Magnolia officinalis	3	
Magnolia kobus	6	
Magnolia fargesii	3	
Magnolia denudata	11	
Mahonia repens	1	
Malpighia glabra	1	4.6
Malus domestica	9	6346.0
Malva sylvestris	1	40.0
Malva parviflora	1	2.0
Mammea americana	1	
Mangifera indica	9	18568.4
Manihot esculenta	4	16034.2

Plants with Activity Synergy	Chemical Count	Total PPM
Manilkara zapota	1	
Maranta arundinacea	2	8.0
Marrubium vulgare	8	
Matricaria recutita	10	
Mauritia flexuosa	1	
Medicago sativa	10	15.0
Melaleuca viridiflora	3	
Melaleuca sp	1	
Melaleuca linariifolia	6	
Melaleuca leucadendra	3	
Melaleuca cajuputi	6	
Melaleuca bracteata	2	
Melaleuca alternifolia	15	
Meleleuca howeana	1	
Melia azedarach	5	
Melilotus officinalis	3	
Melissa officinalis	11	2985.0
Mentha x rotundifolia	10	33920.0
Mentha x piperita	21	18318.800000000003
Mentha spicata	26	93806.0
Mentha sp	1	
Mentha pulegium	17	70212.0
Mentha longifolia	20	205191.0
Mentha arvensis var. piperascens	13	128408.0
Mentha aquatica	13	6070.0
Menyanthes trifoliata	5	
Metrosideros sclerocarpa	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Micromeria varia	10	
Micromeria thymifolia	13	
Micromeria teneriffae	13	
Micromeria myrtifolia	18	
Micromeria juliana	17	
Micromeria fruticosa	19	
Micromeria dalmatica	7	
Micromeria croatica	15	
Micromeria congesta	17	
Mimosa pudica	3	278834.0
Mimulus glabratus	1	16.0
Minthostachys mollis	6	
Mitchella repens	1	
Moldavica thymiflora	7	
Moldavica parviflora	2	
Momordica charantia	4	231176.0
Monarda russeliana	7	8290.0
Monarda punctata	15	136944.0
Monarda media	10	16836.0
Monarda lindheimeri	9	18494.0
Monarda fistulosa	15	224488.0
Monarda didyma	16	24026.0
Monarda clinopodia	9	5852.0
Monarda citriodora	13	21724.0
Morinda citrifolia	6	14.0
Moringa oleifera	3	
Morus alba	12	4.0

Plants with Activity Synergy	Chemical Count	Total PPM
Mucuna pruriens	3	84171.4
Muntingia calabura	1	
Murraya sp	3	3.2
Murraya koenigii	16	
Musa x paradisiaca	4	9644.6
Myrciaria dubia	10	
Myrciaria cauliflora	1	
Myrica cerifera	6	
Myristica fragrans	20	434914.0
Myroxylon balsamum	8	
Myrrhis odorata	3	
Myrtus communis	26	9144.0
Narcissus tazetta	3	
Nardostachys jatamansi	3	
Nasturtium officinale	1	36.0
Nelumbo nucifera	4	31967.0
Nepeta racemosa	16	
Nepeta cilicia	1	
Nepeta cataria	13	23590.0
Nerium oleander	3	
Nicotiana tabacum	11	385000.0
Nigella sativa	5	855942.0
Ocimum tenuiflorum	16	
Ocimum suave	3	
Ocimum sp	1	
Ocimum sanctum	4	
Ocimum kilimandscharicum	10	



Plants with Activity Synergy	Chemical Count	Total PPM
Ocimum gratissimum	22	
Ocimum canum	10	
Ocimum basilicum	26	91158.0
Oenanthe javanica	4	
Oenanthe aquatica	1	
Oenothera biennis	6	556128.0
Olea europaea	4	708800.0
Ononis spinosa	3	
Opopanax chironium	1	
Opuntia ficus-indica	4	299212.8
Origanum vulgare	30	54816.0
Origanum syriacum	15	
Origanum sipyleum	16	
Origanum onites	25	19058.0
Origanum minutiflorum	16	
Origanum majorana	22	86036.0
Origanum creticum	2	
Oryza sativa	6	39967.8
Oxalis tuberosa	1	6.2
Pachira macrocarpa	1	0.6
Pachira aquatica	2	626400.0
Pachyrhizus erosus	4	7.4
Paeonia suffruticosa	1	
Paeonia officinalis	1	
Paeonia moutan	1	
Paeonia lactiflora	2	22000.0
Panax quinquefolius	7	

Plants with Activity Synergy	Chemical Count	Total PPM
Panax ginseng	14	3.4
Papaver somniferum	5	762693.8
Papaver bracteatum	2	855360.0
Passiflora quadrangularis	1	
Passiflora ligularis	1	
Passiflora incarnata	1	
Passiflora foetida	1	
Passiflora edulis	3	
Pastinaca sativa	11	403622.8
Paullinia cupana	1	
Pavonia odorata	1	
Pelargonium roseum	5	
Pelargonium graveolens	1	2800.0
Pelargonium citrosum	5	
Peperomia pereskiifolia	1	
Peperomia pelucida	2	
Pereskia aculeata	1	
Perilla frutescens	8	24.0
Persea schiedeana	1	
Persea americana	8	3140088.4
Petasites japonicus	2	7.2
Petasites hybridus	2	
Petiveria alliacea	4	
Petroselinum crispum	20	232691.88
Peucedanum ostruthium	4	13440.0
Peumus boldus	22	101641.0
Phaseolus vulgaris	7	59498.799999999996

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Phaseolus lunatus</i>	4	25762.2
<i>Phaseolus coccineus</i>	1	17.8
<i>Phaseolus acutifolius</i>	1	
<i>Phellodendron amurense</i>	1	
<i>Phoenix dactylifera</i>	5	120003.4
<i>Phoradendron serotinum</i>	1	
<i>Phyllanthus niruri</i>	2	
<i>Phyllanthus emblica</i>	3	231683.8
<i>Phyllanthus acidus</i>	1	12.0
<i>Physalis peruviana</i>	5	137089.4
<i>Physalis ixocarpa</i>	1	12.0
<i>Physalis alkekengi</i>	1	
<i>Physostigma venenosum</i>	2	
<i>Phytolacca americana</i>	2	20.0
<i>Picea mariana</i>	1	322.0
<i>Picea glauca</i>	2	
<i>Picrasma excelsa</i>	1	
<i>Picrorhiza kurrooa</i>	1	
<i>Pilocarpus microphyllus</i>	4	2480.0
<i>Pilocarpus jaborandi</i>	3	5000.0
<i>Pimenta racemosa</i>	15	139545.0
<i>Pimenta dioica</i>	15	97255.2
<i>Pimpinella anisum</i>	11	1770.0
<i>Pinellia ternata</i>	1	
<i>Pinus walliciana</i>	7	
<i>Pinus sylvestris</i>	21	48350.0
<i>Pinus roxburghii</i>	4	

Plants with Activity Synergy	Chemical Count	Total PPM
Pinus pinea	4	
Pinus palustris	4	480500.0
Pinus mugo	6	
Pinus kesiya	3	
Pinus insularis	3	
Pinus gerardiana	4	
Pinus elliottii	4	
Pinus edulis	4	
Pinus cembroides	1	
Piper nigrum	29	300121.244
Piper methysticum	1	
Piper cubeba	11	22000.0
Piper betel	6	64769.6
Piper auritum	15	13.4
Pistacia vera	3	1680942.0
Pistacia lentiscus	4	
Pisum sativum	11	45205.8
Plantago psyllium	3	7056.0
Plantago ovata	3	87690.0
Plantago major	8	248002.0
Plantago asiatica	4	
Platonia insignis	1	
Platycodon grandiflorum	1	2.6
Plectranthus incanus	1	
Plectranthus coleoides	4	
Plectranthus amboinicus	2	
Pluchea carolinensis	2	

Plants with Activity Synergy	Chemical Count	Total PPM
Plumeria acutifolia	2	
Pogostemon cablin	8	
Polianthes tuberosa	4	
Polygala senega	2	2000.0
Polygonum multiflorum	1	0.2
Polygonum aviculare	1	
Polymnia edulis	1	2.2
Polypodium vulgare	4	
Populus balsamifera	1	
Porophyllum ruderale	8	
Portulaca oleracea	5	276072.0
Pourouma cecropiaefolia	1	
Pouteria viridis	1	
Pouteria campechiana	1	
Pouteria caimito	1	
Prosopis glandulosa	3	
Prunella vulgaris	5	
Prunus spinosa	2	
Prunus serotina	2	
Prunus salicifolia	1	
Prunus persica	8	18154.0
Prunus laurocerasus	3	44952.0
Prunus dulcis	10	1088820.2
Prunus domestica	8	906551.8
Prunus cerasus	9	752704.0
Prunus armeniaca	8	1661068.0
Psidium guajava	10	125214.0

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Psidium cattleianum</i>	4	29893.8
<i>Psophocarpus tetragonolobus</i>	4	437710.4
<i>Psoralea corylifolia</i>	3	
<i>Pteridium aquilinum</i>	3	
<i>Ptychopetalum olacoides</i>	1	
<i>Pueraria montana</i>	1	
<i>Punica granatum</i>	6	8.0
<i>Pycnanthemum virginianum</i>	14	73428.0
<i>Pycnanthemum verticillatum</i>	8	31164.0
<i>Pycnanthemum torreyi</i>	10	2460.0
<i>Pycnanthemum tenuifolium</i>	15	65040.0
<i>Pycnanthemum setosum</i>	12	65100.0
<i>Pycnanthemum pycnanthemoides</i>	12	91756.0
<i>Pycnanthemum pilosum</i>	8	120680.0
<i>Pycnanthemum nudum</i>	2	48516.0
<i>Pycnanthemum muticum</i>	11	87300.0
<i>Pycnanthemum montanum</i>	12	14944.0
<i>Pycnanthemum loomisii</i>	14	73332.0
<i>Pycnanthemum incanum</i>	10	24092.0
<i>Pycnanthemum curvipes</i>	6	5108.0
<i>Pycnanthemum clinopodioides</i>	13	44396.0
<i>Pycnanthemum californicum</i>	8	60120.0
<i>Pycnanthemum beadlei</i>	11	8568.0
<i>Pycnanthemum albescens</i>	5	69228.0
<i>Pyrus communis</i>	5	71272.4
<i>Quararibea cordata</i>	1	
<i>Quercus alba</i>	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Quisqualis indica	2	308880.0
Raphanus sativus	6	19253.199999999997
Ravensara aromatica	13	
Rheum rhabarbarum	3	51.6
Rheum palmatum	3	
Rheum officinale	3	
Rhizophora mangle	1	
Rhododendron ponticum	3	
Rhododendron ferrugineum	1	
Rhododendron dauricum	1	
Rhodymenia palmata	1	3.2
Rhus toxicodendron	2	
Ribes uva-crispa	5	53096.0
Ribes rubrum	5	10096.0
Ribes nigrum	21	18172.0
Ricinus communis	4	
Robinia pseudoacacia	3	207480.0
Rollinia mucosa	1	
Rosa rubiginosa	2	
Rosa multiflora	1	
Rosa gallica	2	558.0
Rosa damascena	2	30000.0
Rosa canina	6	116647.6
Rosmarinus x mendizabalii	15	
Rosmarinus x lavandulaceus	15	
Rosmarinus tomentosus	15	
Rosmarinus officinalis	33	90100.0

Plants with Activity Synergy	Chemical Count	Total PPM
Rosmarinus eriocalyx	15	
Rubus phoenicolasius	1	
Rubus idaeus	10	6.8
Rubus fruticosus	2	
Rumex crispus	1	32.4
Rumex acetosa	1	18.0
Ruscus aculeatus	1	16.6
Ruta graveolens	6	
Salix alba	2	
Salvia triloba	8	62640.0
Salvia sp.	4	
Salvia sclarea	15	246680.0
Salvia officinalis	28	342562.0
Salvia gilliesii	10	
Salvia dorisiana	10	
Salvia canariensis	11	
Sambucus simpsonii	2	
Sambucus nigra	8	2.0
Sambucus canadensis	3	364806.0
Sanguisorba minor	1	
Santalum album	6	
Santalum acuminatum	1	
Santolina chamaecyparissus	3	
Sarcostemma acidum	1	
Sarracenia purpurea	1	
Sarracenia flava	1	
Sassafras albidum	17	4000.0



Plants with Activity Synergy	Chemical Count	Total PPM
Satureja vulgaris	1	212.0
Satureja thymbra	15	
Satureja subspicata	13	
Satureja parvifolia	11	
Satureja odora	11	
Satureja obovata	18	
Satureja montana	23	75877.0
Satureja hortensis	20	266808.0
Satureja grandiflora	6	
Satureja glabella	4	3380.0
Satureja douglasii	17	47294.0
Satureja cuneifolia	16	
Satureja cilicica	14	
Schinus molle	7	
Schisandra chinensis	1	
Schizonepeta tenuifolia	1	
Schoenocaulon officinale	1	
Sclerocarya caffra	2	840008.0
Scopolia carniolica	2	
Scutellaria parvula	3	142.0
Scutellaria lateriflora	5	5.6
Scutellaria galericulata	3	582.0
Scutellaria churchilliana	1	136.0
Scutellaria baicalensis	1	
Secale cereale	4	
Sechium edule	1	8.0
Senna occidentalis	2	32292.0

Plants with Activity Synergy	Chemical Count	Total PPM
Senna obtusifolia	4	74090.0
Serenoa repens	4	
Sesamum indicum	8	1126676.0
Sicana odorifera	1	
Sida rhombifolia	1	22.0
Sideritis scardica	5	
Sideritis pauli	13	
Sideritis mugronensis	10	
Sideritis germanicolpitana	9	
Sideritis athoa	13	
Silybum marianum	3	
Simarouba glauca	2	802520.0
Sinapis alba	3	187944.0
Skimmia arborescens	6	
Smilax china	1	
Solanum tuberosum	12	9290.0
Solanum torvum	3	16.0
Solanum sessiliflorum	1	
Solanum quitoensis	1	
Solanum nigrum	3	414114.0
Solanum melongena	8	12980.0
Solidago virgaurea	2	
Solidago gigantea	3	
Sonchus oleraceus	1	38.0
Sophora japonica	4	182220.0
Sorbus aucubaria	2	
Spartium junceum	3	170624.0

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Sphenostylis stenocarpa</i>	1	15.2
<i>Spinacia oleracea</i>	7	6228.4
<i>Spirulina pratensis</i>	1	102.0
<i>Spondias purpurea</i>	1	7.4
<i>Spondias pinnata</i>	1	4.2
<i>Spondias mombin</i>	1	9.0
<i>Spondias dulcis</i>	1	8.0
<i>Stachys officinalis</i>	3	10000.0
<i>Stachys germanica</i>	6	418.0
<i>Stachys betonicifolia</i>	1	
<i>Stachytarpheta jamaicensis</i>	1	
<i>Stachytarpheta cayennensis</i>	2	
<i>Stellaria media</i>	6	4.2
<i>Sterculia urens</i>	2	358852.0
<i>Stevia rebaudiana</i>	17	
<i>Strophanthus gratus</i>	2	360000.0
<i>Strychnos nux-vomica</i>	4	71200.0
<i>Styrax tonkinensis</i>	1	
<i>Styrax benzoin</i>	2	
<i>Swertia chirata</i>	1	
<i>Symphytum officinale</i>	3	2.4
<i>Syringa vulgaris</i>	4	
<i>Syzygium malaccense</i>	1	
<i>Syzygium jambos</i>	1	
<i>Syzygium cumini</i>	1	
<i>Syzygium aromaticum</i>	9	478402.0
<i>Tabebuia impetiginosa</i>	3	

Plants with Activity Synergy	Chemical Count	Total PPM
Tabebuia heptaphylla	3	
Tagetes patula	2	704.0
Tagetes minuta	8	1100.0
Tagetes lucida	6	
Tagetes filifolia	3	
Tagetes erecta	2	846.0
Tamarindus indica	8	121238.0
Tanacetum vulgare	12	13600.0
Tanacetum parthenium	18	
Taraxacum officinale	7	30.0
Taxus baccata	4	
Tecoma stans	3	
Telosma cordata	6	
Terminalia pallida	2	
Terminalia chebula	2	595600.0
Terminalia catappa	3	858914.0
Terminalia bellirica	2	
Tetraclinis articulata	3	
Tetragonia tetragonioides	4	7013.4
Teucrium scorodonia	15	
Teucrium scordium	1	
Teucrium salviastrum	14	
Teucrium pseudoscorodonia	14	
Teucrium polium	25	
Teucrium oxylepis	14	
Teucrium micropodioides	15	
Teucrium marum	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Teucrium kotschyianum	15	
Teucrium gnaphalodes	16	
Teucrium divaricatum	15	
Teucrium cyprium	15	
Teucrium chamaedrys	3	510.0
Teucrium asiaticum	14	
Teucrium arduini	5	
Theobroma speciosum	1	
Theobroma cacao	9	468566.0
Theobroma bicolor	3	
Theobroma angustifolium	2	
Thespesia populnea	3	
Thevetia peruviana	3	
Thevetia neriifolia	2	
Thuja occidentalis	8	
Thymus zygis	17	
Thymus x citriodorus	13	
Thymus vulgaris	26	253946.0
Thymus serpyllum	19	55410.0
Thymus saturejoides	14	
Thymus riatarum	15	
Thymus orospedanus	15	33436.0
Thymus mastichina	16	20342.0
Thymus longicaulis	15	
Thymus funkii	20	
Thymus cilicicus	12	
Thymus capitatus	24	22520.0

Plants with Activity Synergy	Chemical Count	Total PPM
Thymus broussonettii	14	
Tilia sp.	10	
Trachyspermum ammi	11	114492.6
Tragopogon porrifolius	1	6.0
Tribulus terrestris	2	
Trichosanthes kirilowii	2	
Trichosanthes anguina	3	314084.8
Trichostemma dichotomum	7	
Trifolium pratense	16	8.4
Trigonella foenum-graecum	4	828.0
Triticum aestivum	10	122.0
Tropaeolum tuberosum	1	18.6
Tropaeolum majus	2	13.0
Tsuga canadensis	2	240.0
Turnera diffusa	6	2203.6
Tussilago farfara	1	
Ullucus tuberosus	1	8.6
Ulmus rubra	2	10.0
Umbellularia californica	15	33320.0
Uncaria tomentosa	1	
Uncaria guianensis	1	
Urtica dioica	6	511437.8
Vaccinium vitis-idaea	3	2720.0
Vaccinium myrtillus	12	16.0
Vaccinium macrocarpon	7	5.0
Vaccinium corymbosum	14	6006.3
Valeriana officinalis	24	3.2

Plants with Activity Synergy	Chemical Count	Total PPM
Valeriana jatamansi	2	
Vanilla planifolia	9	
Verbascum thapsus	4	
Verbena officinalis	1	20000.0
Vernonia cinerea	2	
Vetiveria zizanioides	12	
Viburnum prunifolium	5	
Viburnum opulus	5	
Vicia faba	7	360358.8
Vigna unguiculata	4	55594.0
Vigna subterranea	1	10.4
Vigna radiata	4	34964.0
Vigna mungo	3	18563.0
Vigna angularis	1	13.2
Vigna aconitifolia	4	16464.4
Viola tricolor	2	
Viola odorata	5	714.0
Virola surinamensis	2	
Viscum album	4	
Vitellaria paradoxa	4	
Vitex agnus-castus	14	
Vitis vinifera	13	386137.8
Withania somnifera	2	
Xanthosoma sagittifolium	1	7.6
Xylopia aethiopica	1	
Yucca baccata	1	4.8
Zanthoxylum alatum	2	

Plants with Activity Synergy	Chemical Count	Total PPM
Zea mays	20	74471.599999999999
Zingiber officinale	28	88301.0
Zizyphus spina-christi	1	0.8
Zizyphus jujuba	1	2.6