

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for CALCIUM

Plant	Part	Low PPM	High PPM	StdDev	Reference
Abelmoschus esculentus	Seed	2100.0	2820.0	-0.24360731908228206	--
Abelmoschus esculentus	Fruit	810.0	8100.0	0.9792809325023206	USDA's Ag Handbook 8 and sequelae)
Abelmoschus manihot	Leaf	724.0	6241.0	-0.8333363062019936	--
Abrus precatorius	Leaf	1266.0	2660.0	-1.0780176043339036	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Acacia tortilis	Leaf		22700.0	0.29126840922752445	--
Acacia nilotica	Plant				--
Acacia catechu	Leaf		27400.0	0.6124083425478194	--
Acacia tortilis	Fruit		7900.0	0.9331288578526725	--
Acacia farnesiana	Seed	3900.0	5500.0	0.24859598148301348	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Acacia tortilis	Seed		5600.0	0.266961776280226	--
Acacia senegal	Leaf		7500.0	-0.747311800659387	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Acacia farnesiana	Leaf	930.0	5003.0	-0.917925931191467	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Acalypha indica	Leaf	6670.0	34205.0	1.0773779694083743	Wealth of India.
Acanthopanax gracilistylis	Root Bark		12600.0	-0.5524868353374881	--
Achillea millefolium	Plant	1535.0	8670.0	-0.5262108144941796	--
Achyranthes bidentata	Root	1130.0	52200.0	4.906101246807924	--
Aconitum carmichaelii	Tuber		2550.0	-0.3913732265154976	--
Acorus calamus	Rhizome		7040.0	0.024896656626718316	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Acrocomia totai	Seed		800.0	-0.6145963739859751	--
Acrocomia totai	Fruit		900.0	-0.6821937548850106	--
Actaea racemosa	Root		5970.0	-0.15691792968206164	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Actaea dahurica	Rhizome		9750.0	0.6148898811224651	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
Actinidia chinensis	Fruit	160.0	1910.0	-0.4491257779042877	--
Aegle marmelos	Fruit	850.0	2205.0	-0.3810514677960568	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Aframomum melegueta	Fruit	750.0	9500.0	1.3023454550498572	--
Agathosma betulina	Leaf		38800.0	1.391343499963003	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Akebia quinata	Stem		19000.0	0.027648809517745246	--
Albizia lebbeck	Leaf	10100.0	104000.0	5.846305979214756	Wealth of India.
Albizia lebbeck	Seed		1720.0	-0.44563106185161994	Wealth of India.
Albizia julibrissin	Bark		35500.0	1.60841282693287	--
Aleurites moluccana	Seed	800.0	860.0	-0.6035768971076476	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Alisma plantago-aquatica	Rhizome	1630.0	3430.0	-0.7610352771111585	--
Allium sativum var. sativum	Shoot	120.0	538.0	-1.0364734470880839	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Allium sativum var. sativum	Bulb	130.0	4947.0	1.1604999014541306	--
Allium ampeloprasum	Root	520.0	3796.0	-0.39501015744951196	--
Allium sativum var. sativum	Leaf	580.0	4265.0	-0.9683517334872921	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Allium cepa	Leaf	420.0	5385.0	-0.8918247706535197	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Allium ampeloprasum	Leaf	520.0	5472.0	-0.8858802655048249	--
Allium schoenoprasum	Leaf	690.0	11140.0	-0.4985991714496266	--
Allium sativum var. sativum	Flower	250.0	2155.0	-1.0002454452549991	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Allium cepa	Bulb	200.0	3008.0	0.11970003608893207	--
Allium ampeloprasum	Flower	230.0	1361.0	-1.2199068284592132	--
Allium sativum var. sativum	Root	315.0	850.0	-0.7176503152245389	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Alocasia macrorrhiza	Root	281.0	1875.0	-0.6053943200719922	--
Alocasia macrorrhiza	Leaf	570.0	15700.0	-0.18702510848355317	--
Aloe spp.	Leaf	23.0	4600.0	-0.9454619722825477	--
Aloe vera	Leaf	190.0	4600.0	-0.9454619722825477	--
Alpinia galanga	Rhizome	310.0	2199.0	-1.029035889419005	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Althaea officinalis	Root	881.0	8160.0	0.08292658679020891	--
Amaranthus sp.	Leaf	1559.0	53333.0	2.384349170376588	--
Amaranthus spinosus	Leaf	4760.0	53335.0	2.3844858256673627	--
Amomum xanthioides	Seed		5090.0	0.17329622281444215	--
Amorphophallus konjac	Root		234.0	-0.7851134303601183	--
Amorphophallus campanulatus	Root	260.0	5720.0	-0.1842974406948779	--
Amorphophallus konjac	Leaf	170.0	6538.0	-0.8130429955219665	--
Amorphophallus campanulatus	Shoot		15200.0	0.03353128521102296	--
Amphicarpaea bracteata	Shoot		17300.0	0.1867852708765614	--
Anacardium occidentale	Seed	240.0	823.0	-0.6103722411826162	--
Anacardium occidentale	Fruit	100.0	833.0	-0.6976546998926427	--
Ananas comosus	Fruit	62.0	1308.0	-0.5880435225997285	--
Anemarrhena asphodeloides	Rhizome	10900.0	11600.0	1.01765278345351	--
Anethum graveolens	Plant	1900.0	21453.0	0.8411434580787619	--
Anethum graveolens	Fruit	14003.0	17671.0	3.1878884648612305	--
Anethum graveolens	Seed	14003.0	17671.0	2.483896866251749	--
Angelica laxiflora	Root		3800.0	-0.3945720852733069	--
Angelica dahurica	Root		2140.0	-0.576372038398407	--
Angelica sinensis	Root	620.0	2820.0	-0.5018997684435467	--
Annona squamosa	Leaf		21200.0	0.18877694114657925	--
Annona muricata	Fruit	140.0	2600.0	-0.2899011203630018	--
Annona squamosa	Fruit	216.0	1335.0	-0.581812992522026	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Annona cherimola	Seed	860.0	1110.0	-0.5576624101146164	--
Annona diversifolia	Fruit	315.0	1110.0	-0.63373407650288	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Annona cherimola	Fruit	78.0	1455.0	-0.5541217477322371	--
Annona reticulata	Fruit	176.0	1270.0	-0.5968124167831617	--
Annona glabra	Fruit	520.0	3940.0	0.01931777978964036	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Anogeissus latifolia	Leaf		30300.0	0.8105585141709801	--
Anthriscus cerefolium	Leaf	13460.0	14509.0	-0.26840333413982365	--
Apium graveolens	Pt	313.0	11918.0	-1.4133911092017	--
Apium graveolens	Fruit	1680.0	8000.0	0.9562048951774965	--
Apium graveolens	Seed	170.0	20776.0	3.054154794705198	--
Apium graveolens	Root	340.0	3635.0	-0.4126425625417656	ACTA AGRIC SCAND SUPPL 22: 1980
Arachis hypogaea	Seed	560.0	969.0	-0.5835581807786859	--
Arachis hypogaea	Plant	9300.0	31500.0	1.9158370649425922	--
Arachis hypogaea	Leaf	2620.0	21500.0	0.2092752347627683	--
Aralia cordata	Leaf	130.0	2765.0	-1.0708432015682374	--
Arctium lappa	Root	1723.0	7330.0	-0.00797338977234112	--
Arctostaphylos uva-ursi	Leaf	1264.0	10900.0	-0.5149978063425779	--
Areca catechu	Sprout Seedling		60.0	-0.6578060727234551	--
Areca catechu	Seed	500.0	1050.0	-0.5686818869929439	--
Arisaema consanguineum	Rhizome		1550.0	-1.1703294697502744	--
Aristolochia debilis	Fruit		1740.0	-0.4883550413564886	--
Armoracia rusticana	Root	1800.0	10000.0	0.28443978784453666	--
Arracacia xanthorrhiza	Root	190.0	655.0	-0.7390063338145356	--
Artemisia vulgaris	Leaf	820.0	6455.0	-0.8187141900891122	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Artemisia vulgaris	Shoot		8600.0	-0.4481240983092407	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Artemisia dracunculus	Plant	11390.0	12340.0	-0.1336433279618558	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Artemisia vulgaris	Plant	8000.0	11000.0	-0.2769785955240667	Chem. & Pharm. Bull. 38: 2205.
Artemisia capillaris	Plant		15200.0	0.17228119832763905	--
Artocarpus heterophyllus	Seed	500.0	1033.0	-0.57180407210847	--
Artocarpus altilis	Fruit	170.0	1950.0	-0.4398953629743581	--
Artocarpus heterophyllus	Fruit	200.0	1735.0	-0.4895088432227298	--
Artocarpus altilis	Seed	110.0	825.0	-0.610004925286672	--
Arundo donax	Plant		4900.0	-0.9294749627848772	--
Asiasarum sieboldii	Root	7450.0	12900.0	0.6020421155932054	--
Asiasarum heterotropoides	Root	7450.0	12900.0	0.6020421155932054	--
Asimina triloba	Fruit	530.0	3248.0	-0.14036839849814203	--
Aspalathus linearis	Shoot		2000.0	-0.9297794818295042	--
Aspalathus linearis	Plant		90.0	-1.443984393362664	--
Aspalathus linearis	Leaf				--
Asparagus officinalis	Shoot	160.0	3840.0	-0.7954997991511278	--
Asparagus lucidus	Root		1810.0	-0.6125129929353245	--
Asparagus officinalis	Root	265.0	2650.0	-0.5205178359322618	--
Astragalus membranaceus	Root	560.0	3500.0	-0.42742749848868644	--
Atractylodes ovata	Rhizome	5800.0	11600.0	1.01765278345351	--
Atractylodes lancea	Rhizome		11300.0	0.9523398803728	--
Avena sativa	Seed	400.0	4800.0	0.12003541790252584	--
Avena sativa	Plant	3146.0	14300.0	0.07601124250227355	--
Averrhoa bilimbi	Fruit	30.0	665.0	-0.7364224425983471	--
Averrhoa carambola	Fruit	29.0	1040.0	-0.649887302630257	--
Azadirachta indica	Fruit	1381.0	3400.0	-0.10529282176440947	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Azadirachta indica	Leaf	16700.0	26500.0	0.5509134616992524	--
Bacopa monnieri	Shoot		2020.0	-0.928319920061261	Wealth of India.
Bactris gasipaes	Fruit	89.0	5820.0	0.4531472814963324	--
Balanites aegyptiacus	Shoot		4800.0	-0.7254408342754531	--
Balanites aegyptiacus	Fruit	1300.0	3800.0	-0.0129886724651133	--
Barosma betulina	Leaf		38800.0	1.391343499963003	--
Basella alba	Leaf	1090.0	15800.0	-0.18019234394482347	--
Belamcanda chinensis	Rhizome		6170.0	-0.16451076230734063	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Benincasa hispida	Fruit	170.0	4870.0	0.23392492691050396	--
Berberis vulgaris	Root		19100.0	1.281053988711049	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Berberis vulgaris	Bark		19100.0	0.04088065432927098	--
Bertholletia excelsa	Seed	1300.0	1820.0	-0.4272652670544074	--
Beta vulgaris	Root	120.0	4200.0	-0.35076486765280085	--
Beta vulgaris	Leaf	700.0	17368.0	-0.0730545959775421	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Bixa orellana	Fruit	70.0	450.0	-0.7860359228467187	--
Bixa orellana	Seed	970.0	1640.0	-0.46032369768938997	--
Blechnum orientale	Rhizome		8280.0	0.29485665602698624	--
Bletilla striata	Tuber		4400.0	0.15397485461957927	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Blighia sapida	Seed	200.0	1300.0	-0.52276739999999125	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Blighia sapida	Aril	400.0	1950.0	0.32563789816201644	--
Boehmeria nivea	Plant	36000.0	39000.0	2.718086696820638	--
Boehmeria nivea	Shoot	4500.0	46000.0	2.2812564083055866	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Borago officinalis</i>	Leaf	930.0	5005.0	-0.9177892759006925	USDA's Ag Handbook 8 and sequelae)
<i>Brassica oleracea</i> var. <i>capitata</i> l.	Leaf	290.0	19500.0	0.07261994398817469	--
<i>Brassica nigra</i>	Leaf	1107.0	17867.0	-0.03895910092928099	USDA's Ag Handbook 8 and sequelae)
<i>Brassica chinensis</i>	Leaf	1050.0	22440.0	0.2735032214268273	--
<i>Brassica oleracea</i>	Stem	200.0	2665.0	-1.743501400177818	--
<i>Brassica oleracea</i> var. <i>botrytis</i> l.	Flower	210.0	4040.0	-0.4787571488570857	--
<i>Brassica oleracea</i> var. <i>italica</i>	Leaf	360.0	54247.0	2.4468006382605774	--
<i>Brassica rapa</i>	Leaf	1050.0	22440.0	0.2735032214268273	USDA's Ag Handbook 8 and sequelae)
<i>Brassica oleracea</i> var. <i>sabellica</i> l.	Leaf	1200.0	7725.0	-0.7319380804472452	--
<i>Brassica oleracea</i> var. <i>gemmifera</i>	Leaf	395.0	3177.0	-1.042692211668671	USDA's Ag Handbook 8 and sequelae)
<i>Brassica napus</i> var. <i>napobrassica</i>	Root	270.0	6040.0	-0.14925166659847308	--
<i>Brassica rapa</i>	Root	300.0	3690.0	-0.40661907011894605	--
<i>Brassica oleracea</i> var. <i>viridis</i> l.	Leaf	1170.0	19180.0	0.050755097464239715	--
<i>Brassica oleracea</i> var. <i>botrytis</i> l.	Leaf	360.0	54247.0	2.4468006382605774	--
<i>Brassica juncea</i>	Leaf	512.0	5565.0	-0.8795257944838063	--
<i>Brassica pekinensis</i>	Leaf	11780.0	16800.0	-0.11186469855752668	--
<i>Bromelia pinguin</i>	Shoot	1070.0	15800.0	0.07731813825831965	--
<i>Brosimum alicastrum</i>	Fruit	450.0	2812.0	-0.24097992123437484	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Broussonetia papyrifera</i>	Fruit		26900.0	5.317575949569242	--
<i>Bupleurum chinense</i>	Root	2200.0	20000.0	1.3796202283571877	--
<i>Byrsonima crassifolia</i>	Fruit	230.0	1920.0	-0.4468181741718053	--
<i>Cajanus cajan</i>	Fruit	350.0	2022.0	-0.4232806161004848	--
<i>Cajanus cajan</i>	Seed	290.0	1540.0	-0.4786894924866025	--
<i>Cajanus cajan</i>	Plant		8900.0	-0.5016084924499196	--
<i>Calathea macrosepala</i>	Plant	200.0	2600.0	-1.175498183227478	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Calendula officinalis	Leaf		30400.0	0.8173912787097098	--
Camellia sinensis	Leaf	327.0	2456.0	-1.0919564439929121	--
Canavalia ensiformis	Seed	960.0	3090.0	-0.19401967312980825	--
Canavalia ensiformis	Fruit	330.0	5263.0	0.32461375359706246	--
Canna indica	Root	150.0	1300.0	-0.6683671954014696	--
Cannabis sativa	Seed	1200.0	1389.0	-0.5064218426303934	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Capparis spinosa	Leaf		5500.0	-0.8839670914339806	Wealth of India.
Capsella bursa-pastoris	Plant	2080.0	17627.0	0.4318891792033747	--
Capsicum frutescens	Fruit	175.0	1560.0	-0.5298919085411719	--
Capsicum annuum	Fruit	431.0	1670.0	-0.5045082674838655	--
Carica papaya	Fruit	159.0	1180.0	-0.6175808503755033	--
Carica papaya	Leaf	3440.0	23800.0	0.36642881915355097	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Carica pentagona	Fruit	110.0	1615.0	-0.5172000880125186	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Carthamus tinctorius	Plant		17000.0	0.3648211099783701	--
Carthamus tinctorius	Flower	620.0	4430.0	-0.3708630185678622	--
Carthamus tinctorius	Seed	1260.0	1324.0	-0.5183596092485815	--
Carum carvi	Fruit	6426.0	8160.0	0.993126554897215	--
Carum carvi	Seed	1530.0	8160.0	0.7371261230888665	--
Carya ovata	Shoot	5250.0	33300.0	1.35443468547114	--
Carya glabra	Shoot	3800.0	40700.0	1.8944725397211326	--
Carya ovata	Seed		1095.0	-0.5604172793341982	--
Carya illinoensis	Seed	618.0	763.0	-0.6213917180609437	--
Casimiroa edulis	Fruit	80.0	455.0	-0.7848821209804776	--
Cassia tora	Sprout Seedling		28100.0	2.6148841826288662	--
Cassia tora	Seed		11700.0	1.3872752589101898	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Castanea sativa	Seed	220.0	528.0	-0.6645513358343932	--
Castanea mollissima	Seed	160.0	356.0	-0.6961405028855987	--
Castanea dentata	Seed	240.0	427.0	-0.6831007885795778	--
Catalpa ovata	Fruit		2890.0	-0.22298061212101208	--
Catha edulis	Leaf		2900.0	-1.0616189694409524	--
Caulophyllum thalictroides	Root	428.0	3890.0	-0.38471546130869305	--
Ceiba pentandra	Seed	2300.0	4700.0	0.10166962310531331	--
Celosia cristata	Flower		8910.0	0.8685362216775767	--
Cenchrus biflorus	Seed	1440.0	1595.0	-0.4685883053481356	--
Centella asiatica	Leaf	1700.0	15890.0	-0.17404285585996676	--
Chaenomeles lagenaria	Fruit		2300.0	-0.35912923233747396	--
Chamaemelum nobile	Flower		6720.0	0.262669182361168	--
Chamissoa altissima	Leaf	80.0	825.0	-1.203398833619593	Tramil
Chenopodium album	Leaf	3090.0	33800.0	1.049705273026519	--
Chenopodium ambrosioides	Leaf	3000.0	21000.0	0.1751114120691199	--
Chenopodium album	Seed		3000.0	-0.21054888844729952	--
Chondrus crispus	Plant		18820.0	0.5595003539807759	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Chrysanthemum coronarium	Leaf	630.0	9690.0	-0.5976742572612069	--
Chrysanthemum coronarium	Bud	560.0	7525.0	1.0	--
Chrysanthemum parthenium	Leaf	1046.0	5810.0	-0.8627855213639186	--
Chrysanthemum parthenium	Plant		5810.0	-0.8321353407836742	--
Chrysanthemum cinerariifolium	Shoot		5300.0	-0.6889517900693726	--
Chrysobalanus icaco	Fruit	290.0	2775.0	-0.24951805504455976	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Chrysophyllum cainito	Fruit	75.0	1220.0	-0.6083504354455737	--
Cicer arietinum	Seed	1020.0	1220.0	-0.5374600358376825	USDA's Ag Handbook 8 and sequelae)
Cichorium endivia	Leaf	462.0	10080.0	-0.5710264755601612	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cichorium intybus	Root	410.0	2050.0	-0.5862286623630208	--
Cichorium intybus	Leaf	790.0	19900.0	0.09995100214309341	--
Cimicifuga dahurica	Rhizome		9750.0	0.6148898811224651	--
Cimicifuga racemosa	Root	1254.0	5970.0	-0.15691792968206164	--
Cinnamomum verum	Bark	3415.0	6000.0	-1.211233459152872	--
Cinnamomum burmannii	Bark		17000.0	-0.1598399287480191	--
Cinnamomum sieboldii	Root Bark		9000.0	-0.792119679580254	--
Cinnamomum aromaticum	Bark	4900.0	13569.0	-0.48777912900429643	--
Cinnamomum sieboldii	Bark		14000.0	-0.44658361885843356	--
Cistanche salsa	Plant		1730.0	-1.2685591405253311	--
Citrullus lanatus	Seed	1294.0	1300.0	-0.5227673999999125	--
Citrullus lanatus	Fruit	100.0	3400.0	-0.10529282176440947	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Citrus paradisi	Fruit	117.0	11000.0	1.6484860149222178	--
Citrus medica	Fruit		6840.0	0.6885228622095376	--
Citrus mitis	Fruit	1400.0	14000.0	2.34076713466694	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Citrus sinensis	Fruit	210.0	5615.0	0.4058414049804431	--
Citrus limon	Fruit	700.0	3227.0	-0.14521436633635507	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Citrus reticulata	Fruit	140.0	3077.0	-0.17982842232359114	--
Citrus aurantiifolia	Fruit	90.0	3084.0	-0.17821309971085345	--
Citrus aurantium	Fruit	18.0	4230.0	0.08623828803163008	--
Cnicus benedictus	Plant	1490.0	11200.0	-0.2555852720073188	--
Cnidium officinale	Rhizome		1710.0	-1.1354959214405624	--
Cnidoscolus chayamansa	Leaf	2260.0	21050.0	0.17852779433848473	--
Coccinia grandis	Fruit	400.0	5600.0	0.4023799993817195	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cocos nucifera	Seed	71.0	476.0	-0.6741015491289437	--
Coffea arabica	Seed	1200.0	1281.0	-0.5262569010113829	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Coffea arabica	Leaf	19000.0	20406.0	0.1345247907090656	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Coix lacryma-jobi	Seed	50.0	282.0	-0.709731191035536	--
Cola acuminata	Seed	580.0	1563.0	-0.4744653596832436	--
Colocasia esculenta	Leaf	260.0	17400.0	-0.0708681113251486	--
Colocasia esculenta	Root	130.0	3780.0	-0.3967624461543322	--
Colubrina texensis	Shoot		32900.0	1.3252434501062755	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Commelina benghalensis	Leaf	2100.0	15215.0	-0.2201640164963921	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Commiphora wightii	Inflorescence				Jim Duke's personal files.
Coptis japonica	Rhizome	1620.0	3410.0	-0.7653894706498725	--
Coptis chinensis	Rhizome	1620.0	3410.0	-0.7653894706498725	--
Coptis spp	Rhizome	1620.0	3410.0	-0.7653894706498725	--
Corchorus olitorius	Leaf	2080.0	18365.0	-0.004931933526407184	--
Coriandrum sativum	Leaf	1330.0	13441.0	-0.34137725941345665	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Coriandrum sativum	Seed	6465.0	14469.0	1.8958241168450043	--
Cornus officinalis	Fruit		3250.0	-0.13990687775164554	--
Cornus florida	Plant				--
Corylus avellana	Seed	1300.0	2591.0	-0.2856649891678989	--
Crataegus rhipidophylla	Fruit		5570.0	0.3954571881842723	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Crataegus laevigata	Fruit	1554.0	5570.0	0.3954571881842723	--
Crataegus cuneata	Fruit		3770.0	-0.019911483662560514	--
Crescentia alata	Seed	500.0	518.0	-0.6663879153141145	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cucumis sativus	Fruit	129.0	10000.0	1.4177256416739774	--
Cucumis melo	Fruit	96.0	3080.0	-0.1791361412038464	--
Cucurbita pepo	Fruit	210.0	2500.0	-0.31297715768782586	USDA's Ag Handbook 8 and sequelae)
Cucurbita spp	Fruit	200.0	3165.0	-0.159521509477746	--
Cucurbita foetidissima	Leaf		77600.0	4.04245614099012	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cucurbita pepo	Flower	390.0	8041.0	0.6281259672638968	USDA's Ag Handbook 8 and sequelae)
Cucurbita pepo	Seed	240.0	2960.0	-0.21789520636618454	--
Cucurbita maxima	Leaf	364.0	2580.0	-1.0834838159648872	--
Cuminum cyminum	Fruit	9310.0	15511.0	2.6894460586450313	--
Cuminum cyminum	Seed	9310.0	15511.0	2.087195698631959	--
Curcuma longa	Plant	226.0	730.0	-1.3755257581090707	--
Curcuma longa	Rhizome	270.0	2898.0	-0.8768568252409509	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyamopsis tetragonoloba	Shoot	7430.0	19800.0	0.3692304919069643	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyamopsis tetragonoloba	Leaf		24200.0	0.3937598773084697	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyamopsis tetragonoloba	Fruit		1300.0	-0.5898896055857143	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyclanthera pedata	Fruit	130.0	3160.0	-0.1606753113439872	--
Cydonia oblonga	Fruit	60.0	805.0	-0.7041159903435934	--
Cymbopogon citratus	Plant		3680.0	-1.0599742362370392	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Cynanchum atratum	Root		9900.0	0.27348798343941016	--
Cynara cardunculus	Flower	120.0	5286.0	-0.13404923516382297	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyperus rotundus	Rhizome		3180.0	-0.8154626963450835	--
Cyphomandra betacea	Fruit	39.0	5780.0	0.4439168665664028	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cypripedium pubescens	Root		16800.0	1.0291624873931393	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Cyrtosperma chamissonis	Root	1450.0	10630.0	0.35343615559683367	--
Daucus carota	Root	210.0	5710.0	-0.18539262113539057	--
Dendrobium nobile	Stem		6530.0	-1.3244321892519928	--
Dioscorea pentaphylla	Root	260.0	1400.0	-0.6574153909963432	--
Dioscorea bulbifera	Rhizome	690.0	2379.0	-0.9898481475705792	--
Dioscorea sp.	Root		3060.0	-0.47561543787124305	--
Dioscorea villosa	Root	734.0	3060.0	-0.47561543787124305	--
Dioscorea alata	Root	44.0	290.0	-0.7789804198932474	--
Diospyros virginiana	Leaf	1150.0	12500.0	-0.40567357372290297	--
Diospyros digyna	Fruit	220.0	1070.0	-0.6429644914328096	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Diospyros virginiana	Fruit	270.0	758.0	-0.7149617278862607	--
Diospyros virginiana	Stem	2640.0	17820.0	-0.10029470119182099	--
Dipsacus fullonum	Plant		20900.0	0.781990918554954	--
Drynaria fortunei	Rhizome		16000.0	1.9755753619705902	--
Durio zibethinus	Fruit	76.0	600.0	-0.7514218668594826	--
Echinacea spp	Root	3290.0	7760.0	0.03911936916970287	Economic & Medicinal Plant Research, 5: 253.
Echinacea purpurea	Root	826.0	3290.0	-0.4504262877394521	--
Elaeagnus umbellatus	Fruit	196.0	1070.0	-0.6429644914328096	--
Elaeagnus commutata	Fruit	70.0	507.0	-0.7728825815715691	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Elaeis guineensis	Fruit	820.0	1360.0	-0.57604398319082	--
Eleocharis dulcis	Tuber	40.0	265.0	-1.0649518024039575	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Elettaria cardamomum	Seed	3830.0	4177.0	0.005616516315891836	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Elettaria cardamomum</i>	Fruit	1300.0	1625.0	-0.5148924842800362	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Eleutherococcus senticosus</i>	Root	840.0	4000.0	-0.3726684764630539	--
<i>Elytrigia repens</i>	Plant	3000.0	9280.0	-0.46096117776809853	--
<i>Ephedra sinica</i>	Plant	922.0	4390.0	-0.9840279377525842	--
<i>Ephedra nevadensis</i>	Plant	4500.0	58100.0	4.761149092670062	--
<i>Ephedra</i> spp	Plant		11500.0	-0.22349528673219693	--
<i>Equisetum hyemale</i>	Plant		15500.0	0.2043711836027609	--
<i>Equisetum arvense</i>	Plant	4045.0	18900.0	0.5680576833874751	--
<i>Eriobotrya japonica</i>	Fruit	180.0	2381.0	-0.3404376421043665	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Eriobotrya japonica</i>	Leaf		21900.0	0.23660629291768703	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<i>Eriocaulon</i> sp	Leaf		2070.0	-1.1183309151124086	--
<i>Eriodictyon californicum</i>	Leaf	638.0	2900.0	-1.0616189694409524	--
<i>Eryngium floridanum</i>	Shoot		20600.0	0.42761296263669324	--
<i>Erythrina fusca</i>	Leaf	570.0	3080.0	-1.049319993271239	--
<i>Erythrina berteroana</i>	Shoot	1080.0	6835.0	-0.5769304243567052	--
<i>Erythroxylum novogranatense</i>	Leaf	7600.0	14600.0	-0.26218551840957965	--
<i>Erythroxylum novogranatense</i>	Leaf	10200.0	13000.0	-0.37150975102925454	--
<i>Erythroxylum coca</i>	Plant				--
<i>Eucommia ulmoides</i>	Bark		10200.0	-0.8097922929982918	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<i>Eugenia uniflora</i>	Fruit	70.0	640.0	-0.742191451929553	--
<i>Eugenia floribunda</i>	Fruit	60.0	465.0	-0.7825745172479952	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Eugenia brasiliensis</i>	Fruit	395.0	2720.0	-0.26220987557321296	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Euodia rutaecarpa	Fruit		11600.0	1.786942238871162	--
Eupatorium perfoliatum	Plant	1260.0	14000.0	0.04392125722715171	--
Euphrasia officinalis	Plant	1771.0	11500.0	-0.22349528673219693	--
Fagopyrum esculentum	Seed	241.0	1140.0	-0.5521526716754526	--
Fallopia japonica	Plant	11000.0	12000.0	-0.1700119779403272	Chem. & Pharm. Bull. 38: 2205.
Feijoa sellowiana	Fruit	40.0	731.0	-0.7211922579639632	--
Ficus carica	Leaf		31600.0	0.899384453174466	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Ficus carica	Fruit	350.0	4228.0	0.0857767672851336	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Firmiana simplex	Seed		2310.0	-0.3372728725480661	--
Foeniculum vulgare	Seed	1415.0	13100.0	1.644396386071165	--
Foeniculum vulgare	Leaf	1000.0	10556.0	-0.5385025163558079	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Foeniculum vulgare	Fruit	880.0	13941.0	2.327152272645294	--
Forsythia suspensa	Fruit		4380.0	0.12085234401886616	--
Fragaria spp	Fruit	135.0	2900.0	-0.22067300838852968	--
Frangula purshiana	Bark	4100.0	14800.0	-0.3701186348289897	--
Fraxinus rhynchophylla	Bark		38600.0	1.9047146400469648	--
Fritillaria thunbergii	Bulb		400.0	-1.2801999375430626	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Fucus vesiculosus	Plant	3587.0	30400.0	1.798173785600479	--
Garcinia mangostana	Fruit	100.0	637.0	-0.7428837330492978	--
Gardenia jasminoides	Fruit	2810.0	4710.0	0.1970032671907855	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
Gastrodia elata	Rhizome		2140.0	-1.0418807603582114	--
Genipa americana	Seed		900.0	-0.5962305791887627	--
Genipa americana	Fruit	400.0	3700.0	-0.036064709789937345	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Gentiana scabra	Root		7490.0	0.009549497275861294	--
Gentiana lutea	Root	1791.0	8140.0	0.0807362259091836	--
Geranium thunbergii	Plant		16900.0	0.3541244482199961	--
Ginkgo biloba	Leaf	2640.0	11000.0	-0.5081650418038481	--
Ginkgo biloba	Seed	20.0	230.0	-0.7192814043300865	--
Glechoma hederacea	Plant	21000.0	23000.0	1.0066208154808067	Chem. & Pharm. Bull. 38: 2205.
Gleditsia triacanthos	Seed		2800.0	-0.24728047804172457	--
Glehnia littoralis	Root		1930.0	-0.5993708276491726	--
Gliricidia sepium	Leaf	170.0	1110.0	-1.1839254546842135	--
Gliricidia sepium	Flower	220.0	1570.0	-1.1620866406888344	--
Glycine max	Seed	780.0	4440.0	0.05391855663256077	--
Glycine max	Plant	9400.0	13000.0	-0.06304536035658775	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Glycine max	Sprout Seedling	480.0	3504.0	-0.25583940940557376	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Glycine max	Fruit	670.0	2200.0	-0.382205269662298	--
Glycyrrhiza uralensis	Root	6850.0	23500.0	1.7629333825366154	--
Glycyrrhiza glabra	Root	1379.0	8780.0	0.15082777410199327	--
Gymnema sylvestre	Leaf	169.0	890.0	-1.1989575366694187	--
Harpagophytum procumbens	Root	1151.0	6060.0	-0.1470613057174478	--
Helianthus tuberosus	Tuber	140.0	9600.0	1.686845136728985	--
Helianthus annuus	Seed	917.0	1225.0	-0.5365417460978219	USDA's Ag Handbook 8 and sequelae)
Hibiscus sabdariffa	Seed	3200.0	6000.0	0.3404249554690761	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Hibiscus sabdariffa	Leaf	2130.0	14792.0	-0.24906661049521867	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Hibiscus rosa-sinensis	Flower	40.0	395.0	-1.4871522896371359	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hibiscus sabdariffa	Flower	374.0	3400.0	-0.6558141831778627	--
Hordeum vulgare	Sprout Seedling		720.0	-0.580774133760098	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Hordeum vulgare	Seed	160.0	4100.0	-0.008525145677961804	Jim Duke's personal files.*
Hordeum vulgare	Stem		11000.0	-0.8397648224115174	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Hordeum vulgare	Plant	800.0	10400.0	-0.34115856607431033	Jim Duke's personal files.*
Houttuynia cordata	Plant		770.0	-1.371247093405721	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
Humulus lupulus	Fruit		6222.0	0.545912951542125	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Humulus lupulus	Flower	1157.0	6220.0	0.12434337429806096	--
Hydrangea arborescens	Root	2261.0	6460.0	-0.10325408809694175	--
Hydrastis canadensis	Root	823.0	2970.0	-0.48547206183585695	--
Hylocereus guatemalensis	Fruit	63.0	500.0	-0.7744979041843068	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Hylocereus undatus	Fruit	100.0	640.0	-0.742191451929553	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Hyoscyamus niger	Seed		7420.0	0.6012192415894938	--
Inga feuillei	Aril	140.0	875.0	-1.3546536563539873	J Cell Biochem VOL. 22=1995
Inga edulis	Seed	1920.0	5230.0	0.19900833553053968	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Inula helenium	Root	2200.0	10000.0	0.28443978784453666	--
Ipomoea batatas	Root	203.0	2300.0	-0.5588491513502045	--
Ipomoea batatas	Leaf	370.0	17900.0	-0.0367042886315002	--
Ipomoea aquatica	Leaf	276.0	12665.0	-0.394399512233999	--
Isatis tinctoria	Root		16300.0	0.9744034653675068	--
Juglans nigra	Hull Husk		3090.0	1.0	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Juglans regia	Seed	610.0	1100.0	-0.5594989895943375	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Juglans cinerea	Seed	512.0	724.0	-0.6285543780318567	--
Juglans nigra	Seed	565.0	668.0	-0.6388392231182957	--
Juglans nigra	Pericarp	371.0	3090.0		--
Juglans nigra	Fruit		3090.0	-0.176828537471364	--
Juncus effusus	Pith		1440.0	-0.6246622582977759	--
Juniperus virginiana	Shoot	7980.0	31680.0	1.2362101822434388	--
Juniperus communis	Fruit	2632.0	8490.0	1.0692774780691343	--
Jussiaea repens	Plant		14400.0	0.08670790426064749	--
Justicia pectoralis	Leaf	6630.0	44200.0	1.7603127850544058	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Kalmia latifolia	Leaf		9600.0	-0.6038237453460636	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Lablab purpureus	Fruit	500.0	2841.0	-0.23428787041017587	--
Lablab purpureus	Seed	500.0	4122.0	-0.004484670822575049	--
Lactuca sativa	Leaf	360.0	19140.0	0.04802199164874784	--
Lagenaria siceraria	Fruit	200.0	5830.0	0.4554548852288148	--
Lantana camara	Shoot		6100.0	-0.6305693193396437	--
Lantana camara	Fruit		1100.0	-0.6360416802353624	--
Larrea tridentata	Plant	5396.0	16400.0	0.3006411394281264	--
Lens culinaris	Sprout Seedling	244.0	853.0	-0.5652510309083912	USDA's Ag Handbook 8 and sequelae)
Lens culinaris	Seed	386.0	604.0	-0.6505933317885116	--
Lepidium sativum	Leaf	810.0	20340.0	0.130015166113504	--
Lepidium meyenii	Root	2470.0	2500.0	-0.5369455425399515	--
Lepidium sativum	Seed	3100.0	3290.0	-0.1572880835353832	--
Licania platypus	Fruit	105.0	938.0	-0.6734248607015775	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ligustrum lucidum	Fruit		3040.0	-0.18836655613377604	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Ligustrum japonicum	Fruit		3040.0	-0.18836655613377604	--
Limonia acidissima	Seed	15800.0	16460.0	2.261487091257506	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Limonia acidissima	Fruit	1300.0	6540.0	0.6192947502350655	--
Linum usitatissimum	Seed	1820.0	7400.0	0.5975460826300514	--
Linum usitatissimum	Hay		7200.0		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Liquidambar styraciflua	Stem	2400.0	42000.0	2.5214630013143755	--
Liquidambar styraciflua	Leaf	3720.0	18860.0	0.028890250940304736	--
Lobelia inflata	Leaf	793.0	7020.0	-0.7801090704452894	--
Lonicera japonica	Flower		7390.0	0.4480257651657314	--
Lophatherum gracile	Plant		2380.0	-1.1990308390959006	--
Luffa aegyptiaca	Leaf	560.0	55000.0	2.498251355237212	--
Luffa aegyptiaca	Fruit	200.0	4000.0	0.033163402184534785	--
Lupinus mutabilis	Seed	900.0	1000.0	-0.5778647843915501	--
Lupinus mutabilis	Fruit	280.0	980.0	-0.6637329250251514	--
Lupinus albus	Seed	1760.0	1965.0	-0.40063486459844927	--
Lycium chinense	Leaf	1480.0	14231.0	-0.2873984195574922	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Lycium chinense	Fruit	225.0	1170.0	-0.6198884541079857	--
Lycium chinense	Root Bark		53900.0	2.196634405558688	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Lycopersicon esculentum	Leaf		60800.0	2.894551698483533	--
Lycopersicon esculentum	Fruit	60.0	2400.0	-0.3360531950126499	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Lycopodium clavatum	Plant		16020.0	0.2599938247463054	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Lygodium japonicum	Pollen Or Spore		3060.0		--
Macadamia spp	Seed	355.0	1075.0	-0.5640904382936407	USDA's Ag Handbook 8 and sequelae)
Magnolia officinalis	Bark		6350.0	-1.1777800286399904	--
Magnolia kobus	Flower		8040.0	0.6278493156477706	--
Magnolia fargesii	Flower		8040.0	0.6278493156477706	--
Magnolia denudata	Flower		8040.0	0.6278493156477706	--
Malpighia glabra	Fruit	120.0	1400.0	-0.5668135682608904	--
Malus domestica	Fruit	43.0	570.0	-0.75834467805693	--
Malva sylvestris	Leaf	900.0	10715.0	-0.5276384207392277	--
Malva parviflora	Plant	3120.0	23650.0	1.0761491169102375	--
Mammea americana	Fruit	40.0	985.0	-0.6625791231589101	--
Mangifera indica	Fruit	92.0	1400.0	-0.5668135682608904	--
Mangifera indica	Leaf	290.0	29300.0	0.7422308687836834	--
Manihot esculenta	Root	190.0	2890.0	-0.49423350535995814	--
Manihot esculenta	Leaf	1450.0	10000.0	-0.576492687191145	--
Manilkara zapota	Fruit	240.0	1300.0	-0.5898896055857143	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Maranta arundinacea	Root	150.0	467.0	-0.7595957260961734	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Mauritia flexuosa	Fruit	740.0	1610.0	-0.5183538898787599	J Cell Biochem VOL. 22=1995
Medicago sativa	Plant	1690.0	8990.0	-0.49198149686738296	--
Melia azedarach	Leaf		25500.0	0.4825858163119555	--
Melia azedarach	Seed		2310.0	-0.3372728725480661	--
Melicoccus bijugatas	Fruit	34.0	555.0	-0.7618060836556535	--
Melilotus indica	Plant		13400.0	-0.020258713323091964	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Mentha arvensis var. piperascens	Plant		13500.0	-0.009562051564718019	Suziki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
Mentha x piperita	Leaf	2414.0	16200.0	-0.15286128578990477	--
Mentha spicata	Plant	1990.0	13770.0	0.019318935182891635	--
Mentha pulegium	Plant	9440.0	16870.0	0.35091544969248395	--
Mentha x rotundifolia	Leaf		16300.0	-0.14602852125117508	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Mimosa pudica	Leaf	350.0	23800.0	0.36642881915355097	--
Mimulus glabratus	Shoot	5430.0	54300.0	2.886974542126525	--
Momordica charantia	Leaf	2640.0	18701.0	0.018026155323724542	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Momordica charantia	Fruit	130.0	4333.0	0.11000660647619885	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Morinda citrifolia	Leaf	360.0	1600.0	-1.1504449084444381	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Morinda sp	Root		10000.0	0.28443978784453666	--
Moringa oleifera	Fruit	300.0	2545.0	-0.30259294089165506	USDA's Ag Handbook 8 and sequelae)
Moringa oleifera	Leaf	4400.0	17600.0	-0.05720258224768924	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Morus alba	Leaf	7000.0	27400.0	0.6124083425478194	--
Morus alba	Fruit	300.0	6400.0	0.5869882979803118	--
Morus alba	Root Bark	16100.0	16500.0	-0.29288458740782497	--
Mucuna pruriens	Seed	1320.0	1600.0	-0.467670015608275	--
Muntingia calabura	Fruit	640.0	5615.0	0.4058414049804431	--
Murraya sp	Fruit	20.0	95.0	-0.8679558553498441	--
Murraya koenigii	Leaf	8100.0	30035.0	0.7924516881433465	--
Musa x paradisiaca	Fruit	20.0	95.0	-0.8679558553498441	--
Musa x paradisiaca	Leaf		7500.0	-0.747311800659387	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Musa x paradisiaca	Sprout Seedling		11600.0	0.6890857085449396	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Musa x paradisiaca	Flower		300.0	-1.5134341931691262	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Musa x paradisiaca	Pith		100.0	-0.7864626628310915	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Myrciaria cauliflora	Fruit	60.0	3695.0	-0.037218511656178545	--
Myrciaria dubia	Fruit	270.0	4500.0	0.148543588808655	--
Myrica cerifera	Bark	2442.0	11200.0	-0.7142110629614871	--
Myristica fragrans	Aril		2400.0	1.0290157581919714	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Myristica fragrans	Seed	1110.0	2000.0	-0.3942068364194249	--
Nardostachys chinensis	Rhizome		11600.0	1.01765278345351	--
Nasturtium officinale	Herb	1200.0	24000.0	1.0	--
Nelumbo nucifera	Seed	590.0	13333.0	1.6871886879486702	--
Nelumbo nucifera	Rhizome	450.0	3704.0	-0.7013828256307767	--
Nelumbo nucifera	Fruit	1360.0	1511.0	-0.5411991668303356	--
Nepeta cataria	Plant	739.0	6160.0	-0.7946970246293654	--
Nigella sativa	Seed		10600.0	1.185251516140852	--
Notopterygium incisum	Rhizome		3850.0	-0.6695972127981645	--
Nyssa sylvatica	Stem	2850.0	14520.0	-0.4581028243626418	--
Nyssa sylvatica	Leaf	1950.0	22750.0	0.2946847914968893	--
Ocimum basilicum	Leaf	3200.0	23700.0	0.35959605461482125	--
Ocimum tenuiflorum	Leaf		31500.0	0.8925516886357363	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp

Plant	Part	Low PPM	High PPM	StdDev	Reference
Oenothera biennis	Seed	12700.0	18000.0	2.5443203311345783	--
Oenothera biennis	Plant	12100.0	23400.0	1.0494074625143026	--
Olea europaea	Fruit	610.0	2798.0	-0.24421056645985023	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Olea europaea	Leaf		11800.0	-0.4535029254940107	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Ophiopogon japonicus	Tuber	870.0	3450.0	-0.1260687546119467	--
Opuntia ficus-indica	Be		560.0		--
Opuntia ficus-indica	Fruit	180.0	3065.0	-0.18259754680257	--
Opuntia ficus-indica	Bud		560.0	-1.0	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Origanum majorana	Plant	17925.0	23625.0	1.073474951470644	USDA's Ag Handbook 8 and sequelae)
Origanum vulgare	Plant	14070.0	18794.0	0.5567192219235987	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Oryza sativa	Plant	1900.0	3300.0	-1.1006215509188604	--
Oryza sativa	Seed	71.0	364.0	-0.6946712393018217	--
Oxalis tuberosa	Root	40.0	247.0	-0.7836896957874517	--
Pachira macrocarpa	Seed	830.0	875.0	-0.6008220278880657	--
Pachyrhizus erosus	Tuber	150.0	1380.0	-0.7362690399901138	--
Paeonia moutan	Root Bark	5150.0	16700.0	-0.2795716516165602	--
Paeonia lactiflora	Root	10300.0	40600.0	3.635691935813249	--
Paeonia suffruticosa	Root Bark	5150.0	16700.0	-0.2795716516165602	--
Panax japonicus	Rhizome		7000.0	0.016188269549290316	--
Panax ginseng	Root	611.0	2880.0	-0.4953286858004708	--
Panax quinquefolius	Plant	2340.0	10800.0	-0.29837191904081456	--
Panicum maximum	Leaf	7100.0	20900.0	0.1682786475303902	--
Papaver somniferum	Seed	13807.0	16214.0	2.216307236056363	--
Parthenium integrifolium	Root	1424.0	8900.0	0.16396993938814508	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Passiflora ligularis</i>	Fruit	56.0	810.0	-0.7029621884773523	--
<i>Passiflora incarnata</i>	Fruit	140.0	509.0	-0.7724210608250726	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
<i>Passiflora edulis</i>	Fruit	130.0	1190.0	-0.6152732466430209	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Passiflora incarnata</i>	Flower	506.0	4600.0	-0.3238322438264058	--
<i>Passiflora foetida</i>	Fruit	200.0	1110.0	-0.63373407650288	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Passiflora quadrangularis</i>	Seed	90.0	415.0	-0.6853046839552434	--
<i>Passiflora mollissima</i>	Fruit	40.0	500.0	-0.7744979041843068	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Passiflora quadrangularis</i>	Fruit	90.0	2500.0	-0.31297715768782586	--
<i>Passiflora edulis</i>	Seed		800.0	-0.6145963739859751	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Pastinaca sativa</i>	Root	315.0	3525.0	-0.4246895473874048	--
<i>Peganum harmala</i>	Plant		5600.0	-0.8545983304762595	--
<i>Peperomia pelucida</i>	Leaf	1240.0	15900.0	-0.1733595794060938	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Peperomia pereskiaifolia</i>	Leaf	1500.0	10000.0	-0.576492687191145	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Pereskia aculeata</i>	Fruit	130.0	2025.0	-0.42258833498074005	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Perideridia gairdneri</i>	Root		600.0	-0.7450298262373551	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
<i>Perilla frutescens</i>	Leaf	1970.0	14071.0	-0.29833084281945965	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Perilla frutescens	Seed	1400.0	3500.0	-0.11871991446123692	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Perilla frutescens	Plant		12670.0	-0.09834434415922177	Suziki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
Persea americana	Fruit	60.0	964.0	-0.6674250909971232	--
Persea schiedeana	Fruit	114.0	532.0	-0.767113572240363	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Petasites japonicus	Pt	1030.0	18725.0	0.7484589275751646	USDA's Ag Handbook 8 and sequelae)
Petasites japonicus	Plant	13000.0	14000.0	0.04392125722715171	Chem. & Pharm. Bull. 38: 2205.
Petroselinum crispum	Shoot		1600.0	-0.9589707171943687	--
Petroselinum crispum	Plant	1000.0	16850.0	0.34877611734080916	--
Peucedanum decursivum	Plant	14400.0	30000.0	1.755387138566983	--
Phaseolus coccineus	Seed	600.0	1600.0	-0.467670015608275	--
Phaseolus vulgaris	Leaf	2740.0	20758.0	0.15857612188539408	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Phaseolus lunatus	Seed	250.0	8600.0	0.8179356201966016	--
Phaseolus coccineus	Fruit	500.0	610.0	-0.7491142631270002	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Phaseolus acutifolius	Seed	1120.0	1966.0	-0.4004512066504771	--
Phaseolus vulgaris	Sprout Seedling	170.0	1828.0	-0.4514538483488865	USDA's Ag Handbook 8 and sequelae)
Phaseolus vulgaris	Fruit	356.0	18000.0	3.2638086276599014	--
Phaseolus lunatus	Leaf	80.0	2857.0	-1.064557058192606	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Phaseolus vulgaris	Seed	510.0	3295.0	-0.1563697937955226	--
Phaseolus lunatus	Sprout Seedling	1090.0	3028.0	-0.3113957775064191	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Phellodendron amurense	Bark		14100.0	-0.4370254958547531	--
Phoenix dactylifera	Fruit	140.0	2000.0	-0.4283573443119461	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Phoenix dactylifera	Seed	18.0	436.0	-0.6814478670478287	Abstract (See species file)
Phragmites australis	Shoot		9400.0	-0.38974162757951175	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Phyllanthus emblica	Fruit	120.0	2660.0	-0.2760554979681074	--
Phyllanthus acidus	Fruit	60.0	2326.0	-0.3531294626330197	--
Physalis peruviana	Fruit	80.0	585.0	-0.7548832724582063	--
Physalis ixocarpa	Fruit	70.0	2580.0	-0.2945163278279666	--
Physalis angulata	Fruit	810.0	8100.0	0.9792809325023206	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Phytelephas aequatorialis	Flower	1780.0	6095.0	0.0897619222822842	KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
Phytelephas aequatorialis	Mesocarp	1160.0	3410.0		KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
Phytolacca americana	Shoot	530.0	6307.0	-0.6154628550383262	--
Pimenta dioica	Leaf	10056.0	11166.0	-0.4968226526695569	--
Pimenta dioica	Fruit	7224.0	8000.0	0.9562048951774965	--
Pimpinella anisum	Seed	6460.0	7843.0	0.6789065535817028	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Pimpinella anisum	Fruit	7138.0	7843.0	0.9199755165775227	--
Pinellia ternata	Tuber	4180.0	10000.0	1.8047582353527853	--
Pinus edulis	Seed	59.0	117.0	-0.7400347524509366	--
Pinus gerardiana	Seed	910.0	980.0	-0.5815379433509926	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Pinus echinata	Shoot	1088.0	11760.0	-0.21751333892681143	--
Pinus pinea	Seed	260.0	280.0	-0.7100985069314802	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pinus cembroides</i>	Seed	120.0	145.0	-0.7348923299077171	USDA's Ag Handbook 8 and sequelae)
<i>Piper auritum</i>	Leaf	2570.0	14440.0	-0.2731179416715471	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Piper nigrum</i>	Fruit	2700.0	4989.0	0.26138541132704457	--
<i>Piper betel</i>	Leaf	2300.0	15750.0	-0.18360872621418833	--
<i>Pistacia vera</i>	Seed	1066.0	1464.0	-0.492647496532484	--
<i>Pisum sativum</i>	Seed	230.0	1700.0	-0.44930422081106247	--
<i>Pisum sativum</i>	Plant	10200.0	14100.0	0.054617918985525656	--
<i>Pisum sativum</i>	Fruit	430.0	4253.0	0.09154577661633961	--
<i>Plantago psyllium</i>	Seed	728.0	3340.0	-0.14810518613677695	--
<i>Plantago major</i>	Shoot	860.0	1340.0	-0.9779450201815306	--
<i>Plantago psyllium</i>	Hull Husk		3059.0	-1.0	--
<i>Plantago major</i>	Seed	7020.0	23400.0	3.536073250184055	--
<i>Plantago asiatica</i>	Plant		18000.0	0.4717877275621095	--
<i>Platonia insignis</i>	Fruit	200.0	720.0	-0.7237306220696939	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Platycodon grandiflorum</i>	Root	180.0	5240.0	-0.23686610183948517	--
<i>Plectranthus amboinicus</i>	Leaf	2320.0	41430.0	1.5710452073315937	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Polygala tenuifolia</i>	Root		3420.0	-0.43618894201278763	--
<i>Polygonum multiflorum</i>	Root		3370.0	-0.4416648442153509	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Polygonum multiflorum</i>	Plant		2225.0	-1.2156106648213802	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Polygonum multiflorum</i>	Rhizome		15300.0	1.8231785881156002	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<i>Polymnia edulis</i>	Root	150.0	1650.0	-0.6300358799835268	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Polystichum polyblepharum	Plant	6000.0	6900.0	-0.7155417276173982	--
Portulaca oleracea	Herb	780.0	20800.0	-1.0	--
Pothomorphe sp.	Leaf	1690.0	9440.0	-0.6147561686080312	--
Pourouma cecropiaefolia	Fruit	340.0	1890.0	-0.45374098536925256	J Cell Biochem VOL. 22=1995
Pouteria viridis	Fruit	230.0	730.0	-0.7214230183372115	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Pouteria campechiana	Fruit	220.0	895.0	-0.6833475567512518	--
Pouteria caimito	Fruit	220.0	3700.0	-0.036064709789937345	--
Prosopis juliflora	Leaf		20800.0	0.16144588299166054	--
Prunella vulgaris	Flower		14500.0	2.4150187558231133	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Prunus domestica	Fruit	38.0	2040.0	-0.41912692938201646	--
Prunus armeniaca	Fruit	134.0	1899.0	-0.45166414201001837	--
Prunus persica	Seed		970.0	-0.5833745228307139	--
Prunus cerasus	Fruit	140.0	1954.0	-0.43897232148136517	--
Prunus serotina	Stem	323.0	18360.0	-0.04174428103659576	--
Prunus persica	Fruit	18.0	8850.0	1.152351212438501	--
Prunus salicifolia	Fruit	172.0	1080.0	-0.6406568877003272	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Prunus armeniaca	Seed	930.0	1522.0	-0.4819953355501007	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
Prunus serotina	Leaf	4060.0	32640.0	0.9704452043772547	--
Prunus dulcis	Seed	2426.0	2962.0	-0.2175278904702403	--
Psidium cattleianum	Fruit	210.0	3400.0	-0.10529282176440947	--
Psidium guajava	Fruit	90.0	1582.0	-0.5248151803297106	--
Psophocarpus tetragonolobus	Seed	567.0	8586.0	0.8153644089249918	--
Psophocarpus tetragonolobus	Leaf	1845.0	11383.0	-0.4819955536205135	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Psophocarpus tetragonolobus	Tuber	300.0	704.0	-0.9355421766643365	--
Psoralea esculenta	Root		5100.0	-0.25219862800666226	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
Pueraria montana	Root	150.0	475.0	-0.7587195817437633	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Pueraria pseudohirsuta	Root	5330.0	8300.0	0.09825911295738601	--
Pueraria montana	Shoot	1600.0	1700.0	-0.9516729083531525	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Pulsatilla chinensis	Root		16200.0	0.9634516609623802	--
Punica granatum	Fruit	30.0	650.0	-0.7398838481970706	--
Pyrus communis	Fruit	68.0	1776.0	-0.48004766791955195	--
Quararibea cordata	Fruit	184.0	1250.0	-0.6014276242481265	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Quercus alba	Bark	8436.0	37000.0	1.7517846719880772	--
Quercus velutina	Stem	5040.0	22940.0	0.4548500232429071	--
Quercus rubra	Seed		947.0	-0.5875986556340728	--
Quercus stellata	Stem	5750.0	31920.0	1.4285218250835043	--
Quercus phellos	Stem	2940.0	14700.0	-0.43858601764423344	--
Quercus rubra	Stem	5200.0	23760.0	0.5437599205156565	--
Quercus alba	Stem	4600.0	27360.0	0.9340960548838247	--
Quisqualis indica	Fruit		1430.0	-0.5598907570634432	--
Raphanus sativus	Leaf	2380.0	19130.0	0.04733871519487487	--
Raphanus sativus	Seed		3670.0	-0.08749806330597563	--
Raphanus sativus	Fruit	260.0	10130.0	1.4477244901962487	--
Raphanus sativus	Root	190.0	8570.0	0.1278289848512276	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rauvolfia serpentina	Seed	3400.0	6900.0	0.5057171086439888	--
Rehmannia glutinosa	Root		1150.0	-0.6847949020091594	--
Rheum palmatum	Rhizome	9630.0	12400.0	1.1918205250020704	--
Rheum rhabarbarum	Pt	600.0	18462.0	0.664932181626536	--
Rheum rhabarbarum	Leaf	470.0	14400.0	-0.27585104748703904	--
Rhizophora mangle	Leaf		13500.0	-0.3373459283356061	--
Rhodymenia palmata	Plant		6320.0	-0.7775823658159672	--
Rhus copallina	Stem	2450.0	21350.0	0.28245156389696613	--
Rhus copallina	Leaf	3240.0	24960.0	0.44568888780281524	--
Rhus glabra	Stem	2520.0	24790.0	0.6554394256265491	--
Rhynchosia minima	Shoot		19200.0	0.3254436388596676	--
Ribes nigrum	Fruit	502.0	4720.0	0.1993108709232679	--
Ribes uva-crispa	Fruit	185.0	4122.0	0.06131616772082012	--
Ribes rubrum	Fruit	298.0	2875.0	-0.2264420177197357	--
Ricinus communis	Leaf		26700.0	0.5645789907767117	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Robinia pseudoacacia	Seed		19000.0	2.7279782791067038	--
Robinia pseudoacacia	Leaf	12900.0	15000.0	-0.23485446025466092	--
Rollinia mucosa	Fruit	240.0	1050.0	-0.6475796988977744	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Rosa canina	Fruit	1515.0	8100.0	0.9792809325023206	--
Rosa laevigata	Fruit		7620.0	0.8685159533431651	--
Rosmarinus officinalis	Plant	3170.0	16150.0	0.2738994850321915	USDA's Ag Handbook 8 and sequelae)
Rubia cordifolia	Root		37800.0	3.3290414124697065	--
Rubus chingii	Fruit		7490.0	0.8385171048208939	--
Rubus idaeus	Fruit	220.0	1645.0	-0.5102772768150714	Revised USDA data received 1993.
Rubus chamaemorus	Fruit	150.0	1125.0	-0.6302726709041565	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rubus idaeus	Leaf	2045.0	12100.0	-0.4330046318778217	--
Rumex crispus	Root	2570.0	10000.0	0.28443978784453666	--
Rumex crispus	Leaf	150.0	10000.0	-0.576492687191145	--
Rumex acetosa	Leaf	430.0	4300.0	-0.9659602658987367	--
Ruscus aculeatus	Root	2190.0	7250.0	-0.01673483329644233	--
Salix alba	Bark	2369.0	14100.0	-0.4370254958547531	--
Salvia miltiorrhiza	Root		2780.0	-0.5062804902055973	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Salvia officinalis	Leaf	1696.0	10800.0	-0.5218305708813075	--
Sambucus nigra	Fruit	235.0	1440.0	-0.5575831533309608	--
Sambucus canadensis	Fruit	380.0	1881.0	-0.4558178287284867	USDA's Ag Handbook 8 and sequelae)
Santalum acuminatum	Fruit	420.0	1800.0	-0.47450941896159415	--
Sassafras albidum	Stem	913.0	10360.0	-0.9091579129658584	--
Sassafras albidum	Leaf	2607.0	17680.0	-0.051736370616705496	--
Satureja hortensis	Plant		23429.0	1.052509494424231	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Schisandra chinensis	Fruit	864.0	5760.0	0.439301659101438	--
Schizonepeta tenuifolia	Plant		10900.0	-0.2876752572824406	--
Sclerocarya caffra	Seed	1430.0	1490.0	-0.48787238988520876	--
Scrophularia buergeriana	Root		2670.0	-0.5183274750512364	--
Scutellaria lateriflora	Plant	623.0	4550.0	-0.966913278939186	--
Scutellaria baicalensis	Root	4630.0	10300.0	0.3172952010599162	--
Secale cereale	Seed	315.0	685.0	-0.6357170380027696	--
Sechium edule	Shoot	660.0	8920.0	-0.42477111001734913	--
Sechium edule	Leaf	592.0	3345.0	-1.0312131672436051	--
Sechium edule	Fruit	190.0	2715.0	-0.26336367743945416	--
Senna alexandrina	Leaf	5339.0	26300.0	0.5372479326217929	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Senna occidentalis</i>	Seed		7450.0	0.6067289800286576	--
<i>Senna obtusifolia</i>	Seed	4100.0	6590.0	0.4487831447726299	--
<i>Serenoa repens</i>	Fruit	605.0	4640.0	0.18085004106340866	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Sesamum indicum</i>	Seed	800.0	12638.0	1.559546414108043	--
<i>Sicana odorifera</i>	Fruit	210.0	2460.0	-0.3222075726177555	--
<i>Sida rhombifolia</i>	Leaf	4660.0	23535.0	0.3483219931259173	--
<i>Siegesbeckia orientalis</i>	Plant		11100.0	-0.2662819337656927	--
<i>Silybum marianum</i>	Leaf	1421.0	6460.0	-0.8183725518621756	--
<i>Silybum marianum</i>	Plant		6460.0	-0.7626070393542436	--
<i>Simmondsia chinensis</i>	Seed		372.0	-0.6932019757180448	--
<i>Sinapis alba</i>	Seed	4983.0	5850.0	0.3128762632732573	--
<i>Sinomenium acutum</i>	Rhizome		15400.0	1.8449495558091702	--
<i>Smilax officinalis</i>	Root	626.0	2980.0	-0.4843768813953443	--
<i>Smilax</i> spp	Root	626.0	2980.0	-0.4843768813953443	--
<i>Solanum tuberosum</i>	Tuber	34.0	2550.0	-0.3913732265154976	--
<i>Solanum melongena</i>	Leaf	2540.0	18676.0	0.016317964189042123	--
<i>Solanum quitoensis</i>	Fruit	60.0	975.0	-0.6648867268913925	--
<i>Solanum torvum</i>	Fruit	1040.0	7125.0	0.7542895685852862	--
<i>Solanum melongena</i>	Fruit	120.0	5706.0	0.426840598946033	--
<i>Solanum nigrum</i>	Leaf	1999.0	14400.0	-0.27585104748703904	--
<i>Solanum sessiliflorum</i>	Fruit	120.0	1200.0	-0.6129656429105385	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Sonchus oleraceus</i>	Leaf	1310.0	19265.0	0.05656294732215994	--
<i>Sophora japonica</i>	Seed		2649.0	-0.27501282818551565	--
<i>Sophora subprostrata</i>	Root		18600.0	1.2262949666854164	--
<i>Sophora angustifolia</i>	Root	8750.0	9710.0	0.2526795550696698	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Sophora secundiflora	Seed	500.0	1900.0	-0.4125726312166374	--
Sorbus aucubaria	Fruit	100.0	2115.0	-0.40181990138839846	--
Spartium junceum	Stem		6500.0	-1.3276849903717276	--
Sphenostylis stenocarpa	Seed	550.0	607.0	-0.6500423579445953	--
Sphenostylis stenocarpa	Root	100.0	284.0	-0.7796375281575549	--
Spinacia oleracea	Plant	730.0	15700.0	0.2257645071195088	--
Spirulina spp.	Plant		280.0	-1.4236607360217535	--
Spirulina pratensis	Plant		280.0	-1.4236607360217535	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Spondias pinnata	Fruit	360.0	3710.0	-0.03375710605745494	--
Spondias dulcis	Fruit	560.0	4275.0	0.09662250482780091	--
Spondias tuberosa	Fruit		200.0	-0.8437260161587788	--
Spondias mombin	Fruit	260.0	2500.0	-0.31297715768782586	--
Spondias purpurea	Fruit	140.0	925.0	-0.6764247455538046	--
Spondias dulcis	Seed		5000.0	0.15676700749695088	--
Stachys officinalis	Plant	2822.0	16800.0	0.3434277864616222	--
Stellaria media	Plant		12100.0	-0.15931531618195327	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Stellaria media	Shoot	400.0	1110.0	-0.9947299805163277	--
Stevia rebaudiana	Plant		2100.0	-1.2289814920193476	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
Stevia rebaudiana	Leaf		5440.0	-0.8880667501572184	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Stillingia sylvatica	Plant		3100.0	-1.1220148744356082	--
Symphoricarpos orbiculatus	Stem	2584.0	22880.0	0.44834442100343763	--
Symphytum officinale	Leaf	1980.0	18000.0	-0.029871524092770517	--
Symphytum officinale	Root		11300.0	0.4268132451111813	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Syzygium aromaticum	Fruit	6460.0	9540.0	1.3115758699797868	--
Syzygium jambos	Fruit	290.0	2045.0	-0.41797312751577526	--
Syzygium aromaticum	Flower	6460.0	9540.0	1.0428267398370916	--
Syzygium cumini	Fruit	80.0	920.0	-0.6775785474200458	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Syzygium malaccense	Fruit	55.0	2615.0	-0.2864397147642782	--
Tabebuia heptaphylla	Bark	5836.0	32600.0	1.3312272598261359	--
Tamarindus indica	Leaf	1053.0	23000.0	0.3117667028437135	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Tamarindus indica	Fruit	170.0	2829.0	-0.23705699488915477	--
Tamarindus indica	Seed		1210.0	-0.5392966153174038	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Tamarindus indica	Flower		2650.0	-0.8633028952725232	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Tanacetum parthenium	Plant		5810.0	-0.8321353407836742	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Taraxacum officinale	Leaf	1870.0	42232.0	1.6258439789322057	--
Taraxacum officinale	Root	878.0	6140.0	-0.13829986219334658	--
Taraxacum mongolicum	Plant		16900.0	0.3541244482199961	--
Taraxacum officinale	Plant	12000.0	21000.0	0.7926875803133279	Chem. & Pharm. Bull. 38: 2205.
Tephrosia purpurea	Leaf		16500.0	-0.13236299217371572	--
Terminalia bellirica	Leaf		20800.0	0.16144588299166054	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Terminalia catappa	Seed	320.0	5100.0	0.1751328022941634	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Tetragonia tetragonioides	Leaf	580.0	9665.0	-0.5993824483958894	--
Tetrapanax papyrifera	Pith		18300.0	1.411124921128867	--
Theobroma bicolor	Seed	650.0	675.0	-0.6375536174824907	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Theobroma cacao	Seed	800.0	1100.0	-0.5594989895943375	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Theobroma bicolor	Fruit	158.0	184.0	-0.8474181821307507	--
Theobroma speciosum	Fruit	190.0	485.0	-0.7779593097830303	J Cell Biochem VOL. 22=1995
Theobroma cacao	Fruit	1300.0	3095.0	-0.1756747356051228	J Cell Biochem VOL. 22=1995
Thymus vulgaris	Leaf	2806.0	16700.0	-0.11869746309625637	--
Thymus vulgaris	Plant	16935.0	22534.0	0.9567743716867843	USDA's Ag Handbook 8 and sequelae)
Trachyspermum ammi	Fruit	15250.0	16469.0	2.9105144962168454	--
Tragopogon porrifolius	Root	480.0	2610.0	-0.5248985576943124	--
Tribulus terrestris	Leaf		33500.0	1.02920697941033	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Trichosanthes anguina	Fruit	500.0	9260.0	1.2469629654702794	--
Trifolium pratense	Shoot	4800.0	22900.0	0.5954625659846638	--
Trifolium pratense	Flower	2358.0	13100.0	2.0277064932464137	--
Trigonella foenum-graecum	Seed	95.0	730.0	-0.6274524303440239	--
Trigonella foenum-graecum	Leaf		12900.0	-0.3783425155679842	--
Triticum aestivum	Plant	900.0	10400.0	-0.34115856607431033	--
Triticum aestivum	Seed	100.0	4100.0	-0.008525145677961804	--
Tropaeolum tuberosum	Root	70.0	500.0	-0.7559816306424817	--
Tropaeolum majus	Shoot	2110.0	15400.0	0.04812690289345519	--
Turnera diffusa	Leaf	3801.0	18100.0	-0.023038759554040836	--
Tussilago farfara	Flower		3670.0	-0.5811182468237849	--
Ullucus tuberosus	Root	30.0	365.0	-0.7707665665894025	--
Ulmus rubra	Bark	1602.0	9770.0	-0.8508922219141178	--
Urtica dioica	Leaf	5800.0	29000.0	0.7217325751674943	--
Vaccinium vitis-idaea	Fruit	180.0	1730.0	-0.490662645088971	--
Vaccinium corymbosum	Fruit	58.0	400.0	-0.7975739415091307	--
Vaccinium myrtillus	Fruit	510.0	6380.0	0.582373090515347	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Vaccinium macrocarpon	Fruit	1440.0	12000.0	1.8792463881704582	--
Valeriana officinalis	Root	4956.0	42000.0	3.7890171974850206	--
Valerianella radicata	Plant	19884.0	24463.0	1.1631129770058177	--
Valerianella locusta	Plant	6410.0	7139.0	-0.6899767060148847	--
Vanilla planifolia	Fruit		19000.0	3.494569000908142	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Verbascum thapsus	Leaf	5852.0	13300.0	-0.3510114574130655	--
Vetiveria zizanioides	Leaf	2800.0	3100.0	-1.047953440363493	--
Viburnum opulus	Bark		23540.0	0.46526131569268436	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Vicia faba	Seed	220.0	31160.0	4.961258926447746	USDA's Ag Handbook 8 and sequelae)
Vicia faba	Fruit	500.0	3425.0	-0.09952381243320346	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Vigna mungo	Plant		17400.0	0.40760775701186586	--
Vigna unguiculata	Shoot	630.0	6164.0	-0.6258987216812653	--
Vigna aconitifolia	Plant	23400.0	23700.0	1.0814974477894244	--
Vigna unguiculata	Fruit	500.0	4115.0	0.059700845108082434	USDA's Ag Handbook 8 and sequelae)
Vigna radiata	Seed	1183.0	1602.0	-0.46730269971233074	USDA's Ag Handbook 8 and sequelae)
Vigna mungo	Fruit		27100.0	5.363728024218889	--
Vigna unguiculata	Shoot	630.0	6164.0	-0.6258987216812653	USDA's Ag Handbook 8 and sequelae)
Vigna angularis	Seed	660.0	762.0	-0.6215753760089159	--
Vigna aconitifolia	Leaf		23400.0	0.3390977609986322	--
Vigna subterranea	Seed	100.0	945.0	-0.587965971530017	--
Vigna mungo	Seed	1100.0	2220.0	-0.35380208786555734	--
Vigna unguiculata	Seed	253.0	14400.0	1.8831517184349278	--
Vigna aconitifolia	Seed	1360.0	3500.0	-0.11871991446123692	--
Vigna unguiculata	Seed	1255.0	1643.0	-0.4597727238454736	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Vigna aconitifolia	Fruit		20100.0	3.7484054114812064	--
Vigna radiata	Sprout Seedling	110.0	1571.0	-0.4814496185209816	USDA's Ag Handbook 8 and sequelae)
Viscum album	Leaf		8910.0	-0.6509698206632984	--
Vitellaria paradoxa	Seed		1070.0	-0.5650087280335013	--
Vitis vinifera	Fruit	92.0	4774.0	0.2117719310786729	--
Vitis vinifera	Stem		17700.0	-0.11330590567075993	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Xanthosoma sagittifolium	Root	59.0	4000.0	-0.3726684764630539	--
Xanthosoma sagittifolium	Leaf	950.0	17800.0	-0.04353705317022988	--
Yucca baccata	Root	1718.0	8260.0	0.09387839119533542	--
Zea mays	Silk Stigma Style		2520.0		--
Zea mays	Seed	10.0	181.0	-0.7282806437807207	--
Zingiber officinale	Root	116.0	1650.0	-0.6300358799835268	--
Zingiber officinale	Rhizome	150.0	3458.0	-0.7549394061569589	--
Zizyphus jujuba	Leaf		19700.0	0.08628547306563406	--
Zizyphus jujuba	Fruit	260.0	1602.0	-0.5201999728647457	--
Zizyphus spina-christi	Fruit	1400.0	1544.0	-0.5335840745131437	--
Zizyphus jujuba	Shoot	800.0	21600.0	0.5005910510488544	--