

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

**List of Plants for ASH**

Plant	Part	Low PPM	High PPM	StdDev	Reference
Abelmoschus manihot	Leaf	16100.0	138793.0	0.3513413603806129	--
Abelmoschus esculentus	Seed		47400.0	-0.014440680295344115	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Abelmoschus esculentus	Fruit	7000.0	70000.0	0.3453465628728832	USDA's Ag Handbook 8 and sequelae)
Abies spectabilis	Leaf		40600.0	-1.3786987519416865	Wealth of India.
Abies spectabilis	Wood		2600.0	-0.6188573813992945	Wealth of India.
Abrus precatorius	Leaf	17000.0	81000.0	-0.666900349430093	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Acacia decurrens	Seed		38000.0	-0.29717040195945654	--
Acacia tortilis	Seed		59000.0	0.33445982729015633	--
Acacia senegal	Seed		58000.0	0.30438219732588906	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Acacia nilotica	Seed	40000.0	54000.0	0.18407167746881994	--
Acacia catechu	Leaf		98000.0	-0.36738121966036313	--
Acacia tortilis	Leaf		87000.0	-0.5611877153937178	--
Acacia senegal	Leaf		84000.0	-0.6140440324119054	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Acacia farnesiana	Leaf	10000.0	53800.0	-1.146130957061661	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Acacia tortilis	Fruit	51000.0	57000.0	0.008707046333782076	--
Acacia senegal	Fruit		71000.0	0.37124191029896786	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Acalypha indica	Leaf	31000.0	159000.0	0.7073638930427855	Wealth of India.
Achillea millefolium	Plant	17700.0	100000.0	-0.3796129196407384	--
Acrocomia totai	Fruit		103200.0	1.205072097418895	--
Acrocomia totai	Seed		19800.0	-0.8445832673091213	--
Actinidia chinensis	Fruit	4500.0	41600.0	-0.3900813040279223	--
Aegle marmelos	Fruit	10400.0	44155.0	-0.32391869135427587	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Aesculus hippocastanum</i>	Seed	14000.0	30000.0	-0.537791441673595	--
<i>Aframomum melegueta</i>	Fruit	42000.0	103000.0	1.1998930279336781	--
<i>Aframomum melegueta</i>	Seed	25000.0	105000.0	1.7180308056464513	Wealth of India.
<i>Agathosma betulina</i>	Leaf		81000.0	-0.666900349430093	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Agave americana</i>	Plant		124000.0	0.053970666556024824	--
<i>Ageratum conyzoides</i>	Plant		97200.0	-0.4301976713636941	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Albizia lebeck</i>	Leaf	101000.0	104000.0	-0.26166858562398787	Wealth of India.
<i>Albizia lebeck</i>	Seed		42000.0	-0.17685988210238743	Wealth of India.
<i>Aleurites moluccana</i>	Seed	30000.0	36000.0	-0.35732566188799114	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Allium sativum</i> var. <i>sativum</i>	Leaf	10000.0	74000.0	-0.7902317558058641	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Allium cepa</i>	Leaf	7000.0	90000.0	-0.5083313983755301	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Allium ampeloprasum</i>	Leaf	8000.0	75000.0	-0.7726129834664683	--
<i>Allium schoenoprasum</i>	Leaf	4000.0	128000.0	0.16118195052151324	--
<i>Allium sativum</i> var. <i>sativum</i>	Flower	6000.0	52000.0	-0.3771772570194079	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Allium cepa</i>	Bulb	4000.0	63000.0	-1.0	--
<i>Allium ampeloprasum</i>	Flower	4000.0	24000.0	-1.0154834195722509	--
<i>Allium sativum</i> var. <i>sativum</i>	Root	12950.0	35000.0	-0.9297321702301228	--
<i>Allium sativum</i> var. <i>sativum</i>	Shoot	7000.0	31000.0	-1.6573953704783664	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Allium sativum</i> var. <i>sativum</i>	Bulb	10000.0	395000.0	1.0	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Allium ampeloprasum</i>	Root	9000.0	66000.0	-0.04451203912952142	--
<i>Alocasia macrorrhiza</i>	Root	3000.0	30975.0	-1.0446680098327008	--
<i>Alocasia macrorrhiza</i>	Leaf	8000.0	17700.0	-1.7821686385138522	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Aloe spp.	Leaf				--
Alpinia galanga	Rhizome	10000.0	71000.0	-0.6868308798699451	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Althaea officinalis	Root	8640.0	80000.0	0.35526479427075014	--
Amaranthus spinosus	Leaf	26000.0	240000.0	2.1344844525338518	--
Amorphophallus konjac	Leaf	2000.0	77000.0	-0.7373754387876765	--
Amorphophallus campanulatus	Shoot		163000.0	1.3992319336810395	--
Amorphophallus campanulatus	Root	3100.0	66000.0	-0.04451203912952142	--
Amorphophallus konjac	Root		24000.0	-1.243842539330336	--
Anacardium occidentale	Leaf	12000.0	40000.0	-1.3892700153453241	--
Anacardium occidentale	Fruit	2000.0	28000.0	-0.7422580290226741	--
Anacardium occidentale	Seed	26000.0	32000.0	-0.47763618174506045	--
Ananas comosus	Fruit	2800.0	36000.0	-0.5350952496139966	--
Anemone coronaria	Seed	41000.0	45000.0	-0.08662699220958558	--
Anethum graveolens	Plant	26000.0	205880.0	1.5332133347973154	--
Anethum graveolens	Seed	64000.0	84000.0	1.0864005763968383	--
Anethum graveolens	Fruit	64000.0	84000.0	0.707881426838069	--
Angelica sinensis	Root	12320.0	56000.0	-0.3300669201297154	--
Annona squamosa	Fruit	7000.0	40000.0	-0.4315138599096578	--
Annona cherimola	Seed	12000.0	15500.0	-0.9739170761554706	--
Annona glabra	Fruit	9000.0	68000.0	0.29355586802071376	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Annona reticulata	Fruit	5000.0	11100.0	-1.1798894005235057	--
Annona cherimola	Fruit	6100.0	34000.0	-0.5868859444661659	--
Annona diversifolia	Fruit	13700.0	48070.0	-0.22253840618115428	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Annona muricata	Fruit	5000.0	38000.0	-0.4833045547618272	--
Anogeissus latifolia	Leaf		95000.0	-0.42023753667855074	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Anredera baselloides	Tuber	14000.0	93335.0	0.8908401351238305	Wealth of India.
Anthriscus cerefolium	Leaf	166000.0	178950.0	1.0588584012137332	--
Apium graveolens	Pt	6000.0	219000.0	1.0411508948922918	--
Apium graveolens	Seed	6720.0	106294.0	1.7569512588202132	--
Apium graveolens	Fruit	6720.0	32000.0	-0.6386766393183354	--
Apium graveolens	Root	8300.0	100000.0	0.9263745562711385	ACTA AGRIC SCAND SUPPL 22: 1980
Arachis hypogaea	Leaf	16000.0	74000.0	-0.7902317558058641	--
Arachis hypogaea	Seed	16000.0	28000.0	-0.5979467016021296	--
Arachis hypogaea	Plant	73000.0	116000.0	-0.09055719550956291	--
Aralia cordata	Leaf	6000.0	127660.0	0.15519156792611863	--
Arctium lappa	Root	7990.0	34000.0	-0.9582876583301422	--
Arctium lappa	Leaf	8200.0	35600.0	-1.466792613638666	Wealth of India.
Arctostaphylos uva-ursi	Leaf	5800.0	50000.0	-1.2130822919513653	--
Arctostaphylos uva-ursi	Seed	6000.0	33000.0	-0.44755855178079296	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Areca catechu	Sprout Seedling		10000.0	-1.433018365784906	--
Areca catechu	Seed		15000.0	-0.9889558911376043	--
Armoracia rusticana	Root	10620.0	59000.0	-0.2444004558296572	--
Armoracia rusticana	Plant		200000.0	1.4269853561791084	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Arracacia xanthorrhiza	Root	9000.0	31150.0	-1.0396707994151975	--
Artemisia vulgaris	Leaf	22000.0	173220.0	0.9579028357089948	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Artemisia absinthium	Seed		66000.0	0.5450032370400273	--
Artocarpus altilis	Fruit	5600.0	33400.0	-0.6024231529218168	USDA's Ag Handbook 8 and sequelae)
Artocarpus heterophyllus	Seed	15000.0	30990.0	-0.5080145880089704	--
Artocarpus heterophyllus	Fruit	10000.0	37355.0	-0.5000070538516518	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Artocarpus altilis	Seed	15000.0	85850.0	1.142044191830733	USDA's Ag Handbook 8 and sequelae)
Arundo donax	Stem		42000.0	-1.010382482241424	--
Arundo donax	Plant	92000.0	150000.0	0.5236862182691849	--
Asclepias syriaca	Latex Exudate		12300.0		--
Asclepias syriaca	Seed	37000.0	42000.0	-0.17685988210238743	--
Asimina triloba	Fruit	6000.0	22000.0	-0.8976301135791823	--
Aspalathus linearis	Shoot		25000.0	-1.7963329752128847	--
Asparagus officinalis	Shoot	6000.0	171000.0	1.5844820733270641	--
Asparagus officinalis	Root	2900.0	29000.0	-1.101065098830239	--
Astragalus membranaceus	Root	12800.0	80000.0	0.35526479427075014	--
Astragalus gummifer	Gum	15000.0	30000.0	-1.0	--
Avena sativa	Seed	19000.0	96000.0	1.4473321359680458	--
Avena sativa	Plant	18040.0	82000.0	-0.7048006092883108	--
Averrhoa bilimbi	Fruit	3000.0	68965.0	0.3185448782868855	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Averrhoa carambola	Fruit	2600.0	52000.0	-0.12076969079664142	--
Azadirachta indica	Leaf		112000.0	-0.12071840690882082	--
Azadirachta indica	Fruit		39000.0	-0.4574092073357425	--
Bacopa monnieri	Shoot		19000.0	-1.9352705799474033	Wealth of India.
Bactris gasipaes	Fruit	7200.0	32800.0	-0.6179603613774676	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Bactris gasipaes	Seed		19000.0	-0.8686453712805351	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Balanites aegyptiacus	Shoot		66000.0	-0.8469260095270086	--
Balanites aegyptiacus	Fruit	52000.0	81000.0	0.6301953845598148	--
Balanites aegyptiacus	Seed		33000.0	-0.44755855178079296	--
Balanites aegyptiacus	Leaf		127000.0	0.14356317818211736	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Barosma betulina	Leaf		81000.0	-0.666900349430093	--
Basella alba	Leaf	14000.0	202900.0	1.4808279987422646	--
Benincasa hispida	Fruit	3000.0	76925.0	0.5246718437985197	--
Berberis vulgaris	Root		100000.0	0.9263745562711385	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Berberis vulgaris	Bark		100000.0	0.7762486153900449	--
Bertholletia excelsa	Seed	31840.0	35342.0	-0.377116742404479	USDA's Ag Handbook 8 and sequelae)
Beta vulgaris	Leaf	15000.0	250000.0	2.3106721759278104	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Beta vulgaris	Root	7600.0	140000.0	2.0685940802719145	--
Betula lenta	Leaf		77000.0	-0.7373754387876765	Jim Duke's personal files.*
Bixa orellana	Fruit	10000.0	64100.0	0.19256401305898344	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Bixa orellana	Seed	47000.0	54000.0	0.18407167746881994	--
Blighia sapida	Seed	14000.0	104000.0	1.687953175682184	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Blighia sapida	Aril	12000.0	449000.0	1.0	--
Boehmeria nivea	Shoot	134000.0	182000.0	1.839201015340348	--
Boehmeria nivea	Leaf	21000.0	161540.0	0.752115574784851	--
Brassica napus var. napobrassica	Root	5700.0	90000.0	0.6408196752709441	ACTA AGRIC SCAND SUPPL 22: 1980
Brassica pekinensis	Leaf	190000.0	210000.0	1.6059212823519753	--
Brassica chinensis	Leaf	8000.0	170960.0	0.9180844102219602	--
Brassica rapa	Leaf	8000.0	170960.0	0.9180844102219602	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea var. viridis l.	Leaf	5500.0	90145.0	-0.5057766763863177	--
Brassica oleracea var. botrytis l.	Leaf	2800.0	101708.0	-0.30205081182588317	--
Brassica juncea	Seed	53000.0	56500.0	0.2592657523794881	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Brassica oleracea	Stem	7000.0	111110.0	1.8856973536198134	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Brassica oleracea var. italica	Leaf	2800.0	101708.0	-0.30205081182588317	--
Brassica oleracea var. capitata l.	Leaf	6000.0	98072.0	-0.3661126680519266	--
Brassica nigra	Seed	50000.0	54112.0	0.18744037202481786	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Brassica rapa	Root	7000.0	86000.0	0.5265977228708666	--
Brassica juncea	Leaf	10000.0	108695.0	-0.1789484494905242	--
Brassica oleracea var. sabellica l.	Leaf	15000.0	98500.0	-0.3585718334906652	--
Brassica oleracea var. gemmifera	Leaf	13700.0	97818.0	-0.37058783622613317	USDA's Ag Handbook 8 and sequelae)
Brassica nigra	Leaf	5830.0	99722.0	-0.3370416936919234	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea var. botrytis l.	Flower	6600.0	121250.0	1.2014906628657485	--
Bromelia pinguin	Shoot	10700.0	138000.0	0.8203252472872126	--
Brosimum alicastrum	Fruit	9000.0	56250.0	-0.010714464235781446	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Bupleurum chinense	Root	7810.0	71000.0	0.09826540137057557	--
Byrsonima crassifolia	Fruit	6000.0	34885.0	-0.5639685619940811	--
Cajanus cajan	Fruit	13000.0	51000.0	-0.1466650382227261	--
Cajanus cajan	Plant		58000.0	-1.138384195485074	--
Cajanus cajan	Leaf		185000.0	1.1654519738670783	--
Cajanus cajan	Seed	14000.0	46000.0	-0.056549362245318306	--
Calathea macrosepala	Flower	13000.0	168830.0	2.2861552062323294	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Calotropis sp.	Seed		65500.0	0.5299644220578936	--
Canarium indicum	Seed		38500.0	-0.28213158697732293	--
Canavalia ensiformis	Seed	29000.0	48000.0	0.003605897683216254	--
Canavalia ensiformis	Fruit	6000.0	53000.0	-0.09487434337055671	--
Canna indica	Root	9000.0	53000.0	-0.4157333844297736	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cannabis sativa	Seed	46000.0	71000.0	0.6953913868613637	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Capparis spinosa	Leaf		132000.0	0.23165703987909675	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Capparis spinosa	Flower	79000.0	140000.0	1.6289278252895272	--
Capsella bursa-pastoris	Plant	19000.0	161000.0	0.7224120286093682	--
Capsicum frutescens	Fruit	6000.0	65000.0	0.21586982574245966	--
Capsicum annuum	Fruit	13416.0	52000.0	-0.12076969079664142	--
Carica papaya	Seed		88000.0	1.2067110962539076	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Carica papaya	Leaf	22000.0	154000.0	0.619270031345806	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Carica pentagona	Fruit	4000.0	58825.0	0.05596605538638665	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Carica papaya	Fruit	2970.0	22000.0	-0.8976301135791823	--
Carthamus tinctorius	Seed	40000.0	45000.0	-0.08662699220958558	--
Carthamus tinctorius	Plant	15000.0	122000.0	0.01783870103962789	--
Carthamus tinctorius	Flower	5320.0	38000.0	-0.6963303382958294	--
Carum carvi	Fruit	56460.0	67620.0	0.28371563599880156	--
Carum carvi	Seed	55000.0	67620.0	0.5937289975821403	--
Carya illinoensis	Seed	16000.0	17000.0	-0.9288006312090696	--
Carya glabra	Shoot	20000.0	110000.0	0.17194975852612646	--
Carya ovata	Shoot	25000.0	90000.0	-0.2911755905889351	--
Casimiroa edulis	Fruit	4800.0	27777.0	-0.7480326914986911	--
Casimiroa edulis	Seed	11000.0	58000.0	0.30438219732588906	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cassia tora	Sprout Seedling		99000.0	0.9199790131216808	--
Castanea sativa	Seed	12300.0	27060.0	-0.6262196737685408	--



Plant	Part	Low PPM	High PPM	StdDev	Reference
Castanea dentata	Seed	15600.0	28480.0	-0.5835094392192813	--
Castanea sativa	Leaf		44000.0	-1.3187949259877405	--
Castanea mollissima	Seed	16700.0	29726.0	-0.5460327122838042	--
Catha edulis	Leaf		16000.0	-1.8121205514908252	--
Caulophyllum thalictroides	Root	16060.0	146000.0	2.239927008872031	--
Cedreola odorata	Seed		83000.0	1.0563229464325712	--
Ceiba pentandra	Wood		59000.0	1.989779114185175	--
Ceiba pentandra	Seed	61000.0	82000.0	1.0262453164683039	--
Cenchrus biflorus	Shoot	77000.0	116000.0	0.3108873632606449	--
Cenchrus biflorus	Seed	16000.0	18000.0	-0.8987230012448024	--
Centella asiatica	Leaf	16050.0	150000.0	0.5487949419882225	--
Ceratonia siliqua	Seed		30000.0	-0.537791441673595	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ceratonia siliqua	Fruit		20000.0	-0.9494208084313518	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Chamaemelum nobile	Flower		62000.0	-0.1492107703933926	--
Chamissoa altissima	Leaf	16670.0	166700.0	0.8430284400561338	Tramil
Chenopodium ambrosioides	Leaf	24000.0	166000.0	0.8306952994185566	--
Chondrus crispus	Plant		150000.0	0.5236862182691849	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Chrysanthemum cinerariifolium	Shoot		71000.0	-0.7311446722482432	--
Chrysanthemum parthenium	Plant		171000.0	0.9030718561913528	--
Chrysanthemum coronarium	Leaf	11000.0	169230.0	0.8876039340748053	--
Chrysanthemum coronarium	Bud	13400.0	180110.0	-1.0	--
Chrysanthemum parthenium	Leaf	3060.0	17000.0	-1.7945017791514293	--
Chrysobalanus icaco	Fruit	4000.0	58000.0	0.034602393759866776	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Chrysophyllum cainito	Fruit	3000.0	22000.0	-0.8976301135791823	--
Chrysophyllum cainito	Seed		37500.0	-0.3122092169415902	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Cicer arietinum	Seed	24000.0	28900.0	-0.5708768346342891	USDA's Ag Handbook 8 and sequelae)
Cichorium intybus	Leaf	6000.0	180000.0	1.0773581121700988	USDA's Ag Handbook 8 and sequelae)
Cichorium endivia	Leaf	13590.0	240000.0	2.1344844525338518	--
Cichorium intybus	Root	8900.0	44500.0	-0.6584550332799385	--
Cimicifuga racemosa	Root				--
Cinchona spp	Seed		60000.0	0.3645374572544236	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cinnamomum verum	Bark		17000.0	-2.036112439574681	Wealth of India.
Citrullus lanatus	Fruit		30600.0	-0.674930125714854	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Citrullus lanatus	Seed		62000.0	0.4246927171829582	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Citrus paradisi	Fruit	3050.0	110000.0	1.381160459916271	--
Citrus limon	Fruit		28000.0	-0.7422580290226741	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Citrus mitis	Fruit	5400.0	64000.0	0.18997447831637496	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Citrus sinensis	Fruit	4100.0	36920.0	-0.5112715299819987	--
Citrus aurantiifolia	Fruit	2000.0	3800.0	-1.3689254367339239	--
Citrus mitis	Fruit Juice	6200.0	62000.0		Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Citrus aurantium	Fruit	5000.0	64000.0	0.18997447831637496	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Citrus reticulata	Fruit	3900.0	31525.0	-0.6509769293457256	ACTA AGRIC SCAND SUPPL 22: 1980

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cnicus benedictus	Seed		41000.0	-0.20693751206665473	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cnicus benedictus	Plant	17689.0	133000.0	0.21656451137981103	--
Cnidioscolus chayamansa	Leaf	17000.0	130000.0	0.196419495200305	--
Coccinia grandis	Fruit	5000.0	72465.0	0.40917859427818193	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Cocos nucifera	Seed	9000.0	22000.0	-0.7784124813877332	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Coffea arabica	Seed		37400.0	-0.31521697993801695	--
Colocasia esculenta	Leaf	13000.0	155000.0	0.636888803685202	--
Colocasia esculenta	Root	8000.0	63000.0	-0.13017850342957962	--
Colubrina texensis	Shoot		87000.0	-0.360644392956194	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Commelina benghalensis	Leaf	16000.0	115940.0	-0.05130044389160106	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Corchorus olitorius	Leaf	15800.0	151000.0	0.5664137143276184	--
Coriandrum sativum	Leaf	19000.0	153000.0	0.6016512590064101	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Coriandrum sativum	Seed	6000.0	6600.0	-1.2416079828374493	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cornus florida	Seed		36000.0	-0.35732566188799114	--
Corylus avellana	Seed	17000.0	50000.0	0.06376115761175082	--
Crataegus rhipidophylla	Fruit	29000.0	31800.0	-0.6438557088035524	--
Crataegus laevigata	Fruit	8091.0	29000.0	-0.7163626815965894	--
Crescentia alata	Seed	38000.0	39000.0	-0.26709277199518927	--
Crocus sativus	Silk Stigma Style	42700.0	133000.0	1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Crotalaria juncea	Seed		33000.0	-0.44755855178079296	--
Croton tiglium	Seed	40000.0	60000.0	0.3645374572544236	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cucumis melo	Fruit	6950.0	110000.0	1.381160459916271	--
Cucumis sativus	Fruit	3670.0	140000.0	2.158020882698812	--
Cucurbita pepo	Flower	4800.0	98970.0	0.6935813306629863	USDA's Ag Handbook 8 and sequelae)
Cucurbita spp	Fruit	5550.0	96045.0	1.0197908865852592	--
Cucurbita foetidissima	Leaf		215000.0	1.6940151440489546	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cucurbita maxima	Leaf	18200.0	129100.0	0.1805626000948487	--
Cucurbita pepo	Seed	47530.0	70000.0	0.6653137568970965	--
Cucurbita foetidissima	Seed	31000.0	48000.0	0.003605897683216254	--
Cucurbita foetidissima	Fruit		95000.0	0.9927302485250006	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Cucurbita pepo	Fruit	7500.0	95238.0	0.9988933412124088	--
Cucurbita foetidissima	Root		49000.0	-0.5299553368298512	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Cuminum cyminum	Seed	58000.0	89000.0	1.2367887262181747	--
Cuminum cyminum	Fruit	58000.0	89000.0	0.8373581639684924	--
Curcuma longa	Rhizome	9000.0	148000.0	0.8154551817141439	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Curcuma longa	Plant	9920.0	32000.0	-1.6080997471982341	--
Cuscuta europaea	Plant		80000.0	-0.7409325748047078	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cyamopsis tetragonoloba	Seed	33000.0	43000.0	-0.14678225213812016	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyamopsis tetragonoloba	Leaf	144000.0	165000.0	0.8130765270791607	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyamopsis tetragonoloba	Shoot	75000.0	80000.0	-0.5227382651464656	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cyamopsis tetragonoloba	Fruit		14000.0	-1.1047928929878599	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyclanthera pedata	Fruit	7000.0	122800.0	1.7126209069701552	--
Cydonia oblonga	Seed		13000.0	-1.0491111510661388	--
Cydonia oblonga	Fruit		3000.0	-1.3896417146747917	--
Cymbopogon citratus	Plant		43000.0	-1.4093739368580511	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Cynara cardunculus	Flower	10600.0	106000.0	0.8538417707610751	--
Cyphomandra betacea	Fruit	6100.0	71000.0	0.37124191029896786	--
Cypripedium pubescens	Root		58000.0	-0.2729559439296766	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Cyrtosperma chamissonis	Root	5700.0	35925.0	-0.9033183437376048	--
Cyrtosperma chamissonis	Leaf	16000.0	145545.0	0.4703033112162139	--
Cytisus scoparius	Seed		38000.0	-0.29717040195945654	--
Daucus carota	Root	56000.0	79000.0	0.32670930617073074	--
Dioscorea villosa	Root	19680.0	82000.0	0.41237577047078894	--
Dioscorea alata	Root	7000.0	35045.0	-0.9284471732656219	--
Dioscorea sp.	Root		35000.0	-0.9297321702301228	--
Dioscorea pentaphylla	Root	8200.0	44180.0	-0.6675927894719447	--
Dioscorea bulbifera	Tuber	9000.0	31000.0	-1.3242795851928264	--
Diospyros virginiana	Fruit	9000.0	25280.0	-0.8126933740216246	--
Diospyros virginiana	Stem	22000.0	54000.0	-0.5075180916997535	--
Diospyros virginiana	Leaf		50000.0	-1.2130822919513653	--
Diospyros digyna	Fruit	3700.0	29210.0	-0.7109246586371117	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Durio zibethinus	Fruit	8000.0	57895.0	0.03188338228012788	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
Echinacea spp	Root		80000.0	0.35526479427075014	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Echinacea purpurea	Root	20080.0	80000.0	0.35526479427075014	--
Elaeagnus umbellatus	Fruit	5900.0	31945.0	-0.6401008834267701	--
Elaeagnus commutata	Fruit	7000.0	51000.0	-0.1466650382227261	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Elaeagnus angustifolia	Seed		24000.0	-0.7182572214591987	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Elaeis guineensis	Fruit	9000.0	17000.0	-1.027106850709606	--
Eleocharis dulcis	Tuber	11000.0	60000.0	-0.2937434194884379	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Elettaria cardamomum	Seed		58000.0	0.30438219732588906	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Elettaria cardamomum	Fruit		54000.0	-0.06897899594447202	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Eleutherococcus senticosus	Root	12600.0	60000.0	-0.2158449677296378	--
Elytrigia repens	Plant	61000.0	78000.0	-0.7770645403211047	--
Ephedra sinica	Plant	11760.0	56000.0	-1.174516161001471	--
Equisetum arvense	Plant	22684.0	106000.0	-0.2712170230915476	--
Eriobotrya japonica	Fruit	4000.0	44000.0	-0.327932470205319	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Eriodictyon californicum	Leaf	15620.0	71000.0	-0.8430880728240518	--
Eruca sativa	Seed		48000.0	0.003605897683216254	--
Eryngium creticus	Shoot		194700.0	2.1332856120284123	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Eryngium floridanum	Shoot		146900.0	1.026416027643415	--
Erythrina berteroana	Shoot	12000.0	76000.0	-0.6153633349694778	--
Erythrina fusca	Leaf	14000.0	76000.0	-0.7549942111270724	--
Erythroxylum coca	Leaf	46000.0	96250.0	-0.3982140712543059	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eugenia floribunda	Fruit	2000.0	16000.0	-1.0530021981356905	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Eugenia brasiliensis	Fruit	4000.0	27210.0	-0.7627153534892811	--
Eugenia uniflora	Fruit	2000.0	35715.0	-0.5424754236304308	--
Eupatorium perfoliatum	Plant	6030.0	67000.0	-0.9757903506612878	--
Euphrasia officinalis	Plant	19404.0	126000.0	0.09010263207242175	--
Fagopyrum esculentum	Seed	19000.0	24000.0	-0.7182572214591987	--
Feijoa sellowiana	Fruit	5000.0	31250.0	-0.6580981498878989	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Ferula assa-foetida	Plant	15000.0	100000.0	-0.3796129196407384	--
Ficus carica	Leaf	53000.0	167000.0	0.8483140717579525	--
Ficus carica	Fruit	5000.0	57000.0	0.008707046333782076	--
Foeniculum vulgare	Seed	9720.0	90000.0	1.266866356182442	--
Foeniculum vulgare	Plant	17000.0	170000.0	0.8850058734331543	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Foeniculum vulgare	Fruit	79600.0	93026.0	0.9416128327059095	--
Fragaria spp	Fruit	3900.0	52065.0	-0.1190864932139459	--
Frangula purshiana	Bark	18559.0	67000.0	-0.3419190329694244	--
Fucus vesiculosus	Plant	29500.0	250000.0	2.3302844940890313	--
Garcinia mangostana	Fruit	2000.0	13140.0	-1.1270628917742929	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Gardenia jasminoides	Seed		25000.0	-0.6881795914949315	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Genipa americana	Fruit	2000.0	37000.0	-0.5091999021879119	--
Gentiana lutea	Root	18040.0	82000.0	0.41237577047078894	--
Ginkgo biloba	Leaf	11520.0	48000.0	-1.248319836630157	--
Ginkgo biloba	Seed	14000.0	38000.0	-0.29717040195945654	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Gleditsia triacanthos	Fruit		54000.0	-0.06897899594447202	--
Gleditsia triacanthos	Seed	38000.0	40000.0	-0.237015142030922	--
Gliricidia sepium	Leaf	5000.0	33000.0	-1.5126014217210952	--
Gliricidia sepium	Flower	6000.0	69000.0	0.01036577024481813	--
Gliricidia sepium	Seed		35000.0	-0.3874032918522584	--
Glycine max	Plant	55000.0	119000.0	-0.036359247234967515	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Glycine max	Sprout Seedling	8000.0	58000.0	-0.16398607154315134	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Glycine max	Fruit	16000.0	52000.0	-0.12076969079664142	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Glycine max	Seed	17000.0	61000.0	0.39461508721869093	--
Glycyrrhiza glabra	Root	16799.0	107000.0	1.1262629729712743	--
Gossypium sp	Seed	34100.0	47000.0	-0.026471732281051027	--
Grindelia squarrosa	Seed		34000.0	-0.4174809218165257	--
Guarea rusbyi	Bark		75000.0	-0.07084808791258336	--
Gymnema sylvestre	Leaf	11400.0	60000.0	-1.0368945685574065	--
Harpagophytum procumbens	Root	13490.0	71000.0	0.09826540137057557	--
Helianthus tuberosus	Tuber	11000.0	115500.0	1.67848958729065	--
Helianthus annuus	Seed	26000.0	49300.0	0.04270681663676372	--
Hibiscus sabdariffa	Flower	2200.0	20000.0	-1.1066700142226569	--
Hibiscus sabdariffa	Leaf	10000.0	111000.0	-0.1383371792482167	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Hippophae rhamnoides	Fruit		5000.0	-1.3378510198226223	Abstract (See species file)
Hordeum vulgare	Seed	9000.0	132000.0	2.530126814681668	Jim Duke's personal files.*
Hordeum vulgare	Plant	61000.0	235000.0	2.0592947527160543	Jim Duke's personal files.*
Hordeum vulgare	Stem		81000.0	0.6239267870190052	--
Humulus lupulus	Flower	15996.0	86000.0	0.3979087975090442	--



Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Humulus lupulus</i>	Fruit	70000.0	100000.0	1.1222069856554242	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Hydnocarpus kurzii</i>	Seed		49300.0	0.04270681663676372	--
<i>Hydnocarpus wightiana</i>	Seed		38300.0	-0.28814711297017637	--
<i>Hydrangea arborescens</i>	Root	18900.0	54000.0	-0.3871778963297542	--
<i>Hydrastis canadensis</i>	Root	18282.0	66000.0	-0.04451203912952142	--
<i>Hylocereus undatus</i>	Fruit	6000.0	38460.0	-0.47139269494582825	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Hylocereus guatemalensis</i>	Fruit	5400.0	38860.0	-0.46103455597539433	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Ilex paraguariensis</i>	Seed		13000.0	-1.0491111510661388	--
<i>Ilex paraguariensis</i>	Leaf		42500.0	-1.3452230844968343	--
<i>Indigofera tinctoria</i>	Leaf		44000.0	-1.3187949259877405	--
<i>Inga edulis</i>	Seed	13000.0	35425.0	-0.3746202991174448	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Inga feuillei</i>	Aril	4000.0	25000.0	-1.0	J Cell Biochem VOL. 22=1995
<i>Inula helenium</i>	Root	15840.0	72000.0	0.12682088947059497	--
<i>Ipomoea batatas</i>	Root	7000.0	36064.0	-0.8993491308917021	--
<i>Ipomoea batatas</i>	Leaf	12000.0	259000.0	2.4692411269823733	--
<i>Ipomoea aquatica</i>	Leaf	13000.0	212500.0	1.649968213200465	--
<i>Jatropha curcas</i>	Seed		45000.0	-0.08662699220958558	--
<i>Juglans nigra</i>	Hull Husk		29000.0	-0.6040404496926218	--
<i>Juglans regia</i>	Seed	12000.0	21000.0	-0.8084901113520006	--
<i>Juglans cinerea</i>	Seed	25150.0	30466.0	-0.5237752661102465	--
<i>Juglans nigra</i>	Pericarp	3480.0	29000.0		--
<i>Juglans nigra</i>	Seed	23000.0	27770.0	-0.604864556493911	--
<i>Juglans nigra</i>	Fruit		29000.0	-0.7163626815965894	--
<i>Juncus effusus</i>	Leaf		36000.0	-1.4597451047029075	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Juniperus virginiana	Shoot	38000.0	88000.0	-0.33748812550044127	--
Juniperus communis	Fruit	9920.0	32000.0	-0.6386766393183354	--
Justicia pectoralis	Leaf	23000.0	153000.0	0.6016512590064101	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Kalmia latifolia	Leaf		36000.0	-1.4597451047029075	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Lablab purpureus	Seed	6400.0	52762.0	0.14683557157305704	--
Lablab purpureus	Fruit	10000.0	56818.0	0.0039940931022346615	--
Lactuca sativa	Leaf	7700.0	290000.0	3.0154230695036452	--
Lagenaria siceraria	Seed		44300.0	-0.10768133318457268	--
Lagenaria siceraria	Fruit	4300.0	96400.0	1.0289837349215192	--
Lantana camara	Stem		35000.0	-1.3037200433907317	--
Lantana camara	Shoot		102900.0	0.007540259590279596	--
Lantana camara	Fruit		37000.0	-0.5091999021879119	--
Larrea tridentata	Plant	28294.0	86000.0	-0.632536678255517	--
Lawsonia inermis	Seed	47500.0	52780.0	0.14737696891241386	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Lawsonia inermis	Leaf		148000.0	0.5135573973094308	Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press. Boca Raton, FL 33431. 536 pp. US \$312.50.
Lens culinaris	Seed	21000.0	30875.0	-0.5114735154548612	--
Lens culinaris	Sprout Seedling	9250.0	35833.0	-0.7500410479276718	USDA's Ag Handbook 8 and sequelae)
Leonotis nepetaefolia	Seed	59000.0	65000.0	0.5149256070757601	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Lepidium sativum	Leaf	18000.0	169800.0	0.897646634308261	--
Lepidium sativum	Seed	57000.0	60440.0	0.3777716144387012	--
Lepidium meyenii	Root		50000.0	-0.5013998487298318	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Licania platypus	Fruit	9600.0	45480.0	-0.28960735601471366	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Limonia acidissima	Fruit	19000.0	192300.0	3.5123475530830417	--
Limonia acidissima	Seed	50300.0	52290.0	0.1326389302299229	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Linum usitatissimum	Seed	26000.0	49000.0	0.03368352764748354	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Linum usitatissimum	Hay	62000.0	72000.0	-1.0	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Liquidambar styraciflua	Stem	20000.0	120000.0	2.258236056279434	--
Liquidambar styraciflua	Seed		52000.0	0.12391641754028537	--
Liquidambar styraciflua	Leaf	40000.0	82000.0	-0.6492815770906971	--
Lobelia inflata	Leaf	5537.0	49000.0	-1.2307010642907612	--
Luffa aegyptiaca	Leaf	7000.0	71000.0	-0.8430880728240518	--
Luffa aegyptiaca	Fruit	4000.0	80000.0	0.6043000371337302	--
Lupinus mutabilis	Seed	35000.0	39000.0	-0.26709277199518927	--
Lupinus mutabilis	Fruit	8000.0	28000.0	-0.7422580290226741	--
Lupinus albus	Seed	32800.0	36580.0	-0.3398806365087161	--
Lycium chinense	Leaf	17000.0	163000.0	0.777838982400369	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Lycopersicon esculentum	Fruit	5700.0	105461.0	1.2636214779492727	--
Macadamia spp	Seed	12400.0	17000.0	-0.9288006312090696	--
Maclura pomifera	Wood		3300.0	-0.586480687305161	Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
Maclura pomifera	Leaf		99600.0	-0.3391911839173297	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Malpighia glabra	Fruit	2000.0	42000.0	-0.3797231650574884	--
Malus domestica	Fruit	2300.0	43000.0	-0.3538278176314037	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Malva neglecta	Plant	172500.0	174500.0	0.9663027958450474	--
Malva sylvestris	Leaf	13000.0	155000.0	0.636888803685202	--
Malva parviflora	Plant	23000.0	168000.0	0.8488739079167574	--
Mammea americana	Fruit	1700.0	23070.0	-0.8699220918332717	--
Mangifera indica	Seed		36600.0	-0.33927908390943073	--
Mangifera indica	Leaf	19000.0	133000.0	0.24927581221849263	--
Mangifera indica	Fruit	4700.0	29140.0	-0.7127373329569376	--
Manihot esculenta	Root	5000.0	34300.0	-0.9497210119001364	--
Manihot esculenta	Leaf	27000.0	135000.0	0.28451335689728435	--
Manilkara zapota	Fruit	4000.0	24000.0	-0.845839418727013	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Maranta arundinacea	Root	9000.0	37000.0	-0.872621194030084	--
Mauritia flexuosa	Fruit	8000.0	17390.0	-1.0170076652134328	J Cell Biochem VOL. 22=1995
Medicago sativa	Plant	18800.0	100000.0	-0.3796129196407384	--
Medicago sativa	Seed	44000.0	49830.0	0.05864796051782538	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Melicoccus bijugatas	Fruit	3400.0	27000.0	-0.7681533764487589	--
Melilotus indica	Plant	85000.0	131000.0	0.1804325458634141	--
Melilotus alba	Seed		41000.0	-0.20693751206665473	--
Mentha spicata	Plant	16000.0	140485.0	0.35178839232492654	--
Mentha pulegium	Plant		73000.0	-0.867394454112097	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Mentha x piperita	Leaf	21009.0	141000.0	0.3902259909336596	--
Mimosa pudica	Leaf	5000.0	71000.0	-0.8430880728240518	--
Mimosa hostilis	Plant		34400.0	-1.564741388578558	--
Mimosa pudica	Seed	36000.0	54000.0	0.18407167746881994	--
Mimulus glabratus	Shoot	15000.0	150000.0	1.0982004567562496	--
Mirabilis expansa	Root	7000.0	42000.0	-0.729843753529987	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Momordica charantia	Leaf	21000.0	149000.0	0.5311761696488266	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Momordica charantia	Fruit	4000.0	142000.0	2.2098115775509815	--
Morinda citrifolia	Leaf	15000.0	67000.0	-0.9135631621816354	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Moringa oleifera	Shoot	22600.0	105900.0	0.07700906195753883	USDA's Ag Handbook 8 and sequelae)
Moringa oleifera	Fruit	9700.0	82200.0	0.6612698014711165	USDA's Ag Handbook 8 and sequelae)
Moringa oleifera	Seed	32000.0	33333.0	-0.43754270100269194	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Moringa oleifera	Leaf	23000.0	92000.0	-0.4730938536967384	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Morus alba	Leaf	80000.0	204000.0	1.5002086483155999	--
Morus alba	Fruit	7000.0	72000.0	0.39713725772505254	--
Mucuna pruriens	Seed	30000.0	44000.0	-0.11670462217385287	--
Muntingia calabura	Fruit	12000.0	59000.0	0.06049774118595147	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Murraya koenigii	Leaf	15000.0	125000.0	0.1083256335033256	--
Murraya sp	Fruit	10090.0	38333.0	-0.474681404068941	--
Musa x paradisiaca	Sprout Seedling		143000.0	2.083258616176623	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Musa x paradisiaca	Flower		12000.0	-1.2890432035234691	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Musa x paradisiaca	Pith		6000.0	-1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Musa x paradisiaca	Shoot	11710.0	158300.0	1.290397476639	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
Musa x paradisiaca	Leaf		88000.0	-0.5435689430543219	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Musa x paradisiaca	Hull Husk		121000.0	1.409427715949451	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Musa x paradisiaca	Fruit	10090.0	38333.0	-0.474681404068941	USDA's Ag Handbook 8 and sequelae)
Myrciaria dubia	Fruit	2000.0	33335.0	-0.6041063505045123	--
Myrciaria cauliflora	Fruit	2000.0	24000.0	-0.845839418727013	--
Myrica cerifera	Leaf		127000.0	0.14356317818211736	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Myrica cerifera	Bark	13080.0	60000.0	-0.5791061098941602	--
Nandina domestica	Seed		27000.0	-0.6280243315663969	--
Nasturtium officinale	Herb	13000.0	179000.0	1.0	--
Nelumbo nucifera	Seed	9000.0	52000.0	0.12391641754028537	--
Nelumbo nucifera	Rhizome	9700.0	68000.0	-0.7453615056459485	--
Nepeta cataria	Plant	6000.0	50000.0	-1.2829120575506618	--
Nicotiana tabacum	Leaf	120000.0	250000.0	2.3106721759278104	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Nigella sativa	Seed	38000.0	53000.0	0.15399404750455267	--
Nyssa sylvatica	Stem	15000.0	44000.0	-0.9265717504844788	--
Nyssa sylvatica	Leaf	25000.0	91000.0	-0.49071262603613425	--
Ocimum sanctum	Seed		2000.0	-1.379965080673079	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum tenuiflorum	Seed		2000.0	-1.379965080673079	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum basilicum	Plant	20000.0	153000.0	0.5778841665437804	--
Ocimum tenuiflorum	Plant		97500.0	-0.42477787653623456	--
Oenothera biennis	Seed	47800.0	78000.0	0.9059347966112347	--
Olea europaea	Leaf		61000.0	-1.0192757962180106	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Olea europaea	Fruit	64000.0	294000.0	6.145904386315856	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Olea europaea	Twig		85000.0		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Opuntia ficus-indica	Fruit	3000.0	27000.0	-0.7681533764487589	--
Opuntia ficus-indica	Bud		235000.0	1.0	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Opuntia ficus-indica	Seed	31700.0	241000.0	5.808588480786801	--
Origanum vulgare	Plant	69000.0	79720.0	-0.7459910499770033	USDA's Ag Handbook 8 and sequelae)
Origanum majorana	Plant	96900.0	123300.0	0.0413244786252859	--
Oryza sativa	Plant	75000.0	185800.0	1.17044840101269	--
Oryza sativa	Seed	7000.0	57000.0	0.2743045673616218	--
Oxalis tuberosa	Root	8000.0	49000.0	-0.5299553368298512	--
Pachira macrocarpa	Seed	35000.0	37000.0	-0.3272480319237238	--
Pachyrhizus erosus	Tuber	5000.0	46080.0	-0.7884007790265444	--
Panax ginseng	Root	10600.0	50000.0	-0.5013998487298318	--
Panicum maximum	Leaf	7100.0	160000.0	0.7249826653821814	--
Papaver somniferum	Seed	65450.0	75060.0	0.8175065645162889	--
Parthenium integrifolium	Root	11040.0	69000.0	0.041154425170536774	--
Passiflora foetida	Fruit	6000.0	33335.0	-0.6041063505045123	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Passiflora quadrangularis	Seed	8000.0	37000.0	-0.3272480319237238	--
Passiflora incarnata	Flower	3190.0	29000.0	-0.9015001762592432	--
Passiflora mollissima	Fruit	7000.0	87500.0	0.7985151428293654	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Passiflora edulis	Seed		18400.0	-0.8866919492590954	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Passiflora quadrangularis	Fruit	4000.0	71000.0	0.37124191029896786	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Passiflora ligularis</i>	Fruit	8700.0	61900.0	0.1355942487215971	--
<i>Passiflora edulis</i>	Fruit	8000.0	32000.0	-0.6386766393183354	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Pastinaca sativa</i>	Root	9800.0	90000.0	0.6408196752709441	--
<i>Pastinaca sativa</i>	Seed		12000.0	-1.0791887810304062	--
<i>Paullinia yoko</i>	Bark		61000.0	-0.5452222417620551	--
<i>Paullinia cupana</i>	Seed		14200.0	-1.0130179951090181	Abstract (See species file)
<i>Peganum harmala</i>	Plant	34000.0	105250.0	-0.28476651016019644	--
<i>Peperomia pereskiiifolia</i>	Leaf	23000.0	153335.0	0.6075535477401078	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Peperomia pelucida</i>	Leaf	11000.0	141000.0	0.3902259909336596	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Pereskia aculeata</i>	Fruit	3000.0	94000.0	0.9668349010989159	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Perilla frutescens</i>	Seed	10000.0	85000.0	1.1164782063611056	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Perilla frutescens</i>	Leaf	20000.0	143000.0	0.42546353561245137	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Persea schiedeana</i>	Fruit	7200.0	38725.0	-0.46453042787791576	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Persea americana</i>	Fruit	6000.0	56000.0	-0.017188301092302623	--
<i>Petasites japonicus</i>	Pt	14600.0	26545.0	-1.3494322568823325	USDA's Ag Handbook 8 and sequelae)
<i>Petroselinum crispum</i>	Plant	10823.0	137000.0	0.2888284424126049	--
<i>Phaseolus vulgaris</i>	Seed	17000.0	62000.0	0.4246927171829582	--
<i>Phaseolus lunatus</i>	Sprout Seedling	22000.0	61000.0	-0.08467155315304167	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Phaseolus lunatus</i>	Fruit		40000.0	-0.4315138599096578	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Phaseolus acutifolius</i>	Fruit		68000.0	0.29355586802071376	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.



Plant	Part	Low PPM	High PPM	StdDev	Reference
Phaseolus vulgaris	Leaf	26000.0	177000.0	1.0245017951519113	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Phaseolus lunatus	Seed	15000.0	100000.0	1.5676426558251149	--
Phaseolus coccineus	Seed	28000.0	61000.0	0.39461508721869093	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Phaseolus acutifolius	Seed	31000.0	42000.0	-0.17685988210238743	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Phaseolus vulgaris	Sprout Seedling	5000.0	53763.0	-0.2760046096827829	USDA's Ag Handbook 8 and sequelae)
Phaseolus vulgaris	Fruit	6000.0	156000.0	2.572346441516167	--
Phaseolus lunatus	Leaf	5000.0	179000.0	1.059739339830703	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Phaseolus coccineus	Fruit	16000.0	28000.0	-0.7422580290226741	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Phaseolus acutifolius	Hay	92000.0	123000.0	1.0	--
Phoenix dactylifera	Seed	8900.0	18000.0	-0.8987230012448024	--
Phoenix dactylifera	Fruit	5000.0	44800.0	-0.30721619226445124	--
Phoradendron serotinum	Leaf		59000.0	-1.0545133408968024	--
Phragmites australis	Rhizome		58000.0	-0.94046359156596	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Phragmites australis	Shoot		108000.0	0.1256372236146203	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Phyllanthus emblica	Fruit	4000.0	25000.0	-0.8199440713009283	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Phyllanthus acidus	Fruit	4000.0	70000.0	0.3453465628728832	--
Physalis peruviana	Fruit	8000.0	47000.0	-0.2502464279270649	--
Physalis ixocarpa	Fruit	6000.0	82000.0	0.6560907319858995	--
Physalis angulata	Fruit	20000.0	200000.0	3.711741728263894	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Physalis alkekingi	Fruit		5000.0	-1.3378510198226223	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Phytelephas aequatorialis	Mesocarp	18200.0	154295.0		KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
Phytelephas aequatorialis	Flower	17000.0	58220.0	-0.2353821023380264	KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
Phytelephas macrocarpa	Seed		15000.0	-0.9889558911376043	--
Phytelephas aequatorialis	Seed	7300.0	59400.0	0.34649087927586325	KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
Pimenta dioica	Leaf	76000.0	89000.0	-0.525950170714926	--
Pimpinella anisum	Fruit	66000.0	77000.0	0.526613994855476	--
Pimpinella anisum	Seed	60000.0	100000.0	1.5676426558251149	--
Pinus cembroides	Seed	29000.0	30000.0	-0.537791441673595	USDA's Ag Handbook 8 and sequelae)
Pinus echinata	Shoot	17000.0	42000.0	-1.4026764284650826	--
Pinus edulis	Seed	22600.0	27000.0	-0.6280243315663969	--
Pinus pinea	Seed	43000.0	47155.0	-0.0218096996365896	--
Pinus gerardiana	Seed	29000.0	31350.0	-0.4971866412218342	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Piper nigrum	Fruit	42932.0	60000.0	0.08639308861203618	--
Piper methysticum	Root		32000.0	-1.0153986345301809	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Piper betel	Leaf	23000.0	157500.0	0.6809357345336916	--
Piper auritum	Leaf	24000.0	135000.0	0.28451335689728435	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Pistacia vera	Seed	24000.0	33000.0	-0.44755855178079296	--
Pisum sativum	Plant	60000.0	191000.0	1.2643915113553221	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pisum sativum</i>	Fruit	5600.0	55391.0	-0.032958567674788206	--
<i>Pisum sativum</i>	Seed	8280.0	43138.0	-0.14263153920305127	--
<i>Plantago major</i>	Seed	18600.0	62000.0	0.4246927171829582	--
<i>Plantago psyllium</i>	Hull Husk		19800.0	-0.805387266256829	--
<i>Plantago psyllium</i>	Seed	4796.0	22000.0	-0.7784124813877332	--
<i>Platonia insignis</i>	Fruit	10000.0	40000.0	-0.4315138599096578	--
<i>Platycodon grandiflorum</i>	Root	15000.0	20000.0	-1.3580644917304137	--
<i>Plectranthus amboinicus</i>	Leaf	12000.0	214285.0	1.6814177218262865	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Polygonum multiflorum</i>	Root		70000.0	0.06970991327055617	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Polymnia edulis</i>	Root	3000.0	67000.0	-0.01595655102950202	--
<i>Portulaca oleracea</i>	Herb	14000.0	159090.0	-1.0	--
<i>Pothomorphe</i> sp.	Leaf	17000.0	95000.0	-0.42023753667855074	--
<i>Pourouma cecropiaefolia</i>	Fruit	2000.0	11110.0	-1.1796304470492447	J Cell Biochem VOL. 22=1995
<i>Pouteria campechiana</i>	Fruit	6000.0	23000.0	-0.8717347661530976	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Pouteria caimito</i>	Fruit	7000.0	27070.0	-0.7663407021289329	--
<i>Pouteria viridis</i>	Fruit	12000.0	37975.0	-0.4839519384474793	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Prosopis juliflora</i>	Fruit		48000.0	-0.2243510805009802	--
<i>Prosopis juliflora</i>	Seed	35000.0	300000.0	7.583168648678571	--
<i>Prosopis juliflora</i>	Leaf		85000.0	-0.5964252600725095	--
<i>Prunus armeniaca</i>	Fruit	7000.0	105000.0	1.2516837227858475	USDA's Ag Handbook 8 and sequelae)
<i>Prunus serotina</i>	Stem	1900.0	54000.0	-0.5075180916997535	--
<i>Prunus persica</i>	Bark		63000.0	-0.4774545054978449	--
<i>Prunus cerasus</i>	Fruit	4000.0	48000.0	-0.2243510805009802	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Prunus salicifolia	Fruit	5600.0	35345.0	-0.5520567021780821	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Prunus serotina	Leaf	29000.0	96000.0	-0.4026187643391549	--
Prunus dulcis	Seed	21000.0	33022.0	-0.4468968439215791	USDA's Ag Handbook 8 and sequelae)
Prunus armeniaca	Seed	10000.0	30000.0	-0.537791441673595	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Prunus persica	Fruit	4000.0	150000.0	2.416974356959659	--
Prunus domestica	Fruit	3810.0	170000.0	2.934881305481353	--
Psidium guajava	Seed		30000.0	-0.537791441673595	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Psidium guajava	Fruit	4300.0	43200.0	-0.34864874814618674	--
Psidium cattleianum	Fruit	5000.0	44000.0	-0.327932470205319	--
Psophocarpus tetragonolobus	Tuber	20000.0	46948.0	-0.7575557655151164	--
Psophocarpus tetragonolobus	Seed	6120.0	80863.0	0.9920470511989319	--
Psophocarpus tetragonolobus	Leaf	19000.0	99360.0	-0.34341968927878475	--
Pteridium aquilinum	Rhizome	83000.0	92222.0	-0.2727852331304965	--
Pteridium aquilinum	Leaf	6000.0	68965.0	-0.8789422745347224	--
Pterocarpus marsupium	Leaf		75000.0	-0.7726129834664683	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Pueraria montana	Root	14000.0	44600.0	-0.6555994844699365	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Punica granatum	Fruit	5000.0	35858.0	-0.5387723889485007	USDA's Ag Handbook 8 and sequelae)
Pyrus communis	Fruit	2720.0	40000.0	-0.4315138599096578	--
Quararibea cordata	Fruit	3000.0	25850.0	-0.7979330259887563	--
Quercus suber	Cork	1000.0	40000.0		--
Quercus phellos	Stem	14000.0	42000.0	-1.010382482241424	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Quercus stellata	Stem	25000.0	84000.0	0.7496428846544227	--
Quercus alba	Stem	20000.0	76000.0	0.41439995762664245	--
Quercus velutina	Stem	24000.0	62000.0	-0.17227516467197312	--
Quercus rubra	Stem	20000.0	66000.0	-0.004653701158082971	--
Quercus alba	Bark	31008.0	136000.0	1.9960678681458295	--
Quisqualis indica	Seed	65000.0	69519.0	0.6508464168842839	--
Raphanus sativus	Root	10000.0	185700.0	3.373579886442801	--
Rheum rhabarbarum	Pt	8000.0	160000.0	0.30828136199004014	--
Rheum rhabarbarum	Leaf	10000.0	194000.0	1.3240209249216413	--
Rhizophora mangle	Leaf	89000.0	101000.0	-0.3145249026421755	--
Rhodymenia palmata	Plant		182000.0	1.1017976665315359	--
Rhus copallina	Leaf	27000.0	96000.0	-0.4026187643391549	--
Rhus glabra	Stem	21000.0	67000.0	0.03725166472038957	--
Rhus copallina	Stem	25000.0	61000.0	-0.21418053055044567	--
Rhynchosia minima	Shoot		76900.0	-0.5945226942593	--
Ribes uva-crispa	Fruit	4000.0	183000.0	3.271520822020454	--
Ribes rubrum	Fruit	6000.0	75000.0	0.47482330000330664	--
Ribes nigrum	Fruit	8050.0	61100.0	0.11487797078072934	--
Ricinus communis	Seed	20000.0	22000.0	-0.7784124813877332	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Ricinus communis	Leaf		124000.0	0.09070686116392972	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Robinia pseudoacacia	Leaf	61000.0	75000.0	-0.7726129834664683	--
Robinia pseudoacacia	Seed	40000.0	47000.0	-0.026471732281051027	--
Rollinia mucosa	Fruit	7000.0	30700.0	-0.6723405909722455	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
Rosa canina	Seed		22000.0	-0.7784124813877332	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rosa canina	Fruit	12716.0	68000.0	0.29355586802071376	--
Rosmarinus officinalis	Plant	23500.0	75570.0	-0.820964878423527	USDA's Ag Handbook 8 and sequelae)
Rubus idaeus	Leaf	13520.0	80000.0	-0.6845191217694889	--
Rubus idaeus	Fruit	3880.0	30815.0	-0.6693626260182457	Revised USDA data received 1993.
Rubus chamaemorus	Fruit	4100.0	31250.0	-0.6580981498878989	--
Rumex crispus	Leaf	15000.0	202703.0	1.4773571005914035	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Rumex acetosella	Shoot		81000.0	-0.4995819976907125	--
Rumex crispus	Root	39321.0	153000.0	2.4398154255721667	--
Rumex acetosa	Leaf	11000.0	110000.0	-0.15595595158761258	--
Ruscus aculeatus	Root	19026.0	63000.0	-0.13017850342957962	--
Salix alba	Bark	18480.0	110000.0	1.115087296711096	--
Salix alba	Wood		8700.0	-0.3367176185789884	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Salvia officinalis	Leaf	13659.0	87000.0	-0.5611877153937178	--
Sambucus canadensis	Fruit	6150.0	32918.0	-0.6149047103811897	USDA's Ag Handbook 8 and sequelae)
Sambucus nigra	Fruit	8600.0	48765.0	-0.2045411397200254	--
Santalum acuminatum	Fruit	21000.0	90130.0	0.8666199065599681	--
Sassafras albidum	Stem	11000.0	37000.0	-1.2199093116337867	--
Sassafras albidum	Seed	24000.0	26000.0	-0.6581019615306641	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Sassafras albidum	Leaf	33000.0	68000.0	-0.8959443898422395	--
Satureja hortensis	Plant	21100.0	105000.0	-0.28928300584974603	--
Schinus molle	Fruit		54700.0	-0.05085225274621273	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Schisandra chinensis	Fruit	6900.0	46000.0	-0.2761417753531496	--
Sclerocarya caffra	Seed	48000.0	50000.0	0.06376115761175082	--
Sclerocarya caffra	Fruit	2000.0	24000.0	-0.845839418727013	--
Scutellaria lateriflora	Plant	13152.0	96000.0	-0.4518768506735323	--
Secale cereale	Seed	18000.0	24650.0	-0.698706761982425	USDA's Ag Handbook 8 and sequelae)
Secale cereale	Seed		54750.0	0.2066298999420204	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Sechium edule	Shoot	8000.0	108100.0	0.1279528503601956	--
Sechium edule	Leaf	21600.0	122000.0	0.05546931648513796	--
Sechium edule	Fruit	4000.0	57145.0	0.012461871710564358	--
Senna alexandrina	Leaf	20097.0	99000.0	-0.34976244732096723	--
Senna obtusifolia	Seed	42000.0	48100.0	0.006613660679642982	--
Serenoa repens	Fruit	3770.0	29000.0	-0.7163626815965894	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Sesamum indicum	Seed	42270.0	65000.0	0.5149256070757601	--
Sesamum indicum	Leaf		124000.0	0.09070686116392972	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Sicana odorifera	Fruit	6000.0	47620.0	-0.23419131252289238	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Sida rhombifolia	Leaf	16000.0	81000.0	-0.666900349430093	--
Silybum marianum	Plant		63000.0	-1.0480542816940817	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Silybum marianum	Leaf	13860.0	63000.0	-0.9840382515392189	--
Simmondsia chinensis	Seed	14000.0	16000.0	-0.958878261173337	--
Sinapis alba	Seed	44145.0	49280.0	0.04210526403747837	--
Smilax officinalis	Root	13230.0	63000.0	-0.13017850342957962	--
Smilax spp	Root	13230.0	63000.0	-0.13017850342957962	--
Solanum melongena	Fruit	5000.0	80000.0	0.6043000371337302	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Solanum quitoensis	Fruit	6000.0	73000.0	0.4230326051511373	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Solanum torvum	Fruit	11000.0	75000.0	0.47482330000330664	--
Solanum melongena	Leaf	20000.0	147000.0	0.49593862497003494	--
Solanum tuberosum	Tuber	8100.0	85000.0	0.5946498268084486	--
Sonchus oleraceus	Leaf	16000.0	235000.0	2.046390590836872	--
Sophora secundiflora	Seed		32000.0	-0.47763618174506045	--
Sophora japonica	Seed		39000.0	-0.26709277199518927	--
Sorbus aucubaria	Wood		6300.0	-0.4477234269017318	--
Sorbus aucubaria	Fruit	7300.0	57690.0	0.026574836057780517	--
Spartium junceum	Stem		44000.0	-0.9265717504844788	--
Sphenostylis stenocarpa	Seed	29000.0	32000.0	-0.47763618174506045	--
Sphenostylis stenocarpa	Root	8000.0	23000.0	-1.2723980274303555	--
Spinacia oleracea	Plant	16850.0	285700.0	2.9752400785567166	--
Spirulina pratensis	Plant		182000.0	1.1017976665315359	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Spirulina spp.	Plant		43000.0	-1.4093739368580511	--
Spondias purpurea	Fruit	6000.0	34000.0	-0.5868859444661659	--
Spondias dulcis	Fruit	4000.0	31000.0	-0.6645719867444201	--
Spondias pinnata	Fruit	5000.0	52000.0	-0.12076969079664142	--
Spondias mombin	Fruit	4000.0	35000.0	-0.5609905970400813	--
Stachys officinalis	Plant	10080.0	60000.0	-1.102252229968677	--
Stellaria media	Plant	13031.0	157000.0	0.6501480975765742	--
Sterculia urens	Gum		59200.0	1.0	--
Stevia rebaudiana	Leaf	63000.0	130000.0	0.196419495200305	--
Symphoricarpos orbiculatus	Stem	38000.0	88000.0	0.9172643481683129	--
Symphytum officinale	Leaf	3960.0	36000.0	-1.4597451047029075	--



Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Symphytum officinale</i>	Root		140000.0	2.0685940802719145	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Syzygium malaccense</i>	Fruit	1000.0	47000.0	-0.2502464279270649	--
<i>Syzygium jambos</i>	Fruit	4000.0	28385.0	-0.7322883202636316	--
<i>Syzygium cumini</i>	Fruit	3000.0	40000.0	-0.4315138599096578	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Tabebuia heptaphylla</i>	Bark	14857.0	83000.0	0.20022285714425767	--
<i>Tamarindus indica</i>	Flower		35000.0	-0.7647202842836339	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Tamarindus indica</i>	Leaf	26000.0	73000.0	-0.80785052814526	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Tamarindus indica</i>	Fruit	27000.0	39358.0	-0.44813867295720416	USDA's Ag Handbook 8 and sequelae)
<i>Tamarindus indica</i>	Seed	25000.0	32000.0	-0.47763618174506045	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Tanacetum parthenium</i>	Plant		171000.0	0.9030718561913528	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Taraxacum officinale</i>	Leaf	18000.0	205000.0	1.5178274206549958	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Taraxacum officinale</i>	Root	11440.0	80000.0	0.35526479427075014	--
<i>Tephrosia purpurea</i>	Leaf	77000.0	99600.0	-0.3391911839173297	--
<i>Terminalia arjuna</i>	Leaf		70900.0	-0.8448499500579915	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Terminalia bellirica</i>	Leaf	49000.0	80000.0	-0.6845191217694889	--
<i>Terminalia catappa</i>	Seed	24000.0	43000.0	-0.14678225213812016	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Tetragonia tetragonioides</i>	Leaf	18000.0	300000.0	3.1916107928976043	--
<i>Tetrapanax papyrifera</i>	Pith		59000.0	1.0	--
<i>Theobroma angustifolium</i>	Seed	18200.0	44600.0	-0.0986580441952925	--
<i>Theobroma bicolor</i>	Seed	33000.0	41725.0	-0.18513123034256093	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Theobroma bicolor	Fruit	7000.0	89060.0	0.8389118848140575	--
Theobroma speciosum	Fruit	15000.0	38460.0	-0.47139269494582825	J Cell Biochem VOL. 22=1995
Theobroma cacao	Fruit	38000.0	90475.0	0.8755538014219674	J Cell Biochem VOL. 22=1995
Thymus vulgaris	Plant	113681.0	130809.0	0.17698194315659818	USDA's Ag Handbook 8 and sequelae)
Thymus vulgaris	Leaf	21504.0	128000.0	0.16118195052151324	--
Tilia sp.	Fruit	21000.0	66000.0	0.24176517316854437	--
Trachyspermum ammi	Fruit	79000.0	85313.0	0.7418820180085182	--
Tribulus terrestris	Leaf	46000.0	167000.0	0.8483140717579525	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Trichosanthes anguina	Fruit	5000.0	92590.0	0.9303224612281364	--
Tridax procumbens	Leaf		159000.0	0.7073638930427855	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Trifolium pratense	Flower	8100.0	45000.0	-0.5367537976576187	--
Trifolium pratense	Shoot		79000.0	-0.5458945326022187	--
Trifolium pratense	Seed		41000.0	-0.20693751206665473	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Trigonella foenum-graecum	Seed	5070.0	39000.0	-0.26709277199518927	--
Triticum aestivum	Seed	4000.0	12000.0	-1.0791887810304062	--
Tropaeolum tuberosum	Root	4000.0	57000.0	-0.301511432029696	--
Tropaeolum majus	Shoot	14000.0	102200.0	-0.008669127628747558	--
Turnera diffusa	Leaf	18900.0	90000.0	-0.5083313983755301	--
Ulex europaeus	Seed		43000.0	-0.14678225213812016	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Ulex europaeus	Plant	16000.0	34000.0	-1.5719677816818372	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Ullucus tuberosus	Root	6000.0	44000.0	-0.6727327773299482	--
Ulmus rubra	Bark	12464.0	76000.0	-0.03696421978047823	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Uncaria catechu	Plant	30000.0	50000.0	-1.2829120575506618	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Urtica dioica	Leaf	16800.0	84000.0	-0.6140440324119054	--
Vaccinium vitis-idaea	Fruit	2500.0	18000.0	-1.0012115032835212	--
Vaccinium corymbosum	Fruit	2070.0	13845.0	-1.1088066718389031	--
Vaccinium myrtillus	Fruit	3840.0	48000.0	-0.2243510805009802	--
Vaccinium macrocarpon	Fruit	4800.0	40000.0	-0.4315138599096578	--
Valeriana officinalis	Root	16874.0	143000.0	2.1542605445719727	--
Valerianella locusta	Plant	12000.0	166666.0	0.8247738869173207	--
Vanilla planifolia	Fruit	45000.0	97000.0	1.04452094337717	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Verbascum thapsus	Leaf	37840.0	86000.0	-0.5788064877331136	--
Vetiveria zizanioides	Leaf	53000.0	90000.0	-0.5083313983755301	--
Vicia faba	Fruit	8000.0	54800.0	-0.04826271800360426	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Vicia faba	Seed	11000.0	57900.0	0.3013744343294623	USDA's Ag Handbook 8 and sequelae)
Vigna unguiculata	Fruit	6000.0	49383.0	-0.18853781501070507	USDA's Ag Handbook 8 and sequelae)
Vigna subterranea	Fruit		54000.0	-0.06897899594447202	--
Vigna mungo	Seed	32000.0	36000.0	-0.35732566188799114	--
Vigna angularis	Seed	32600.0	37622.0	-0.3085397460859496	--
Vigna aconitifolia	Leaf		138000.0	0.337369673915472	--
Vigna subterranea	Seed	18000.0	42000.0	-0.17685988210238743	--
Vigna radiata	Sprout Seedling	3750.0	53025.0	-0.2955159812067499	USDA's Ag Handbook 8 and sequelae)
Vigna mungo	Plant		126000.0	0.09010263207242175	--
Vigna unguiculata	Shoot	10500.0	102740.0	0.0038352567973591037	USDA's Ag Handbook 8 and sequelae)
Vigna aconitifolia	Seed	35000.0	56000.0	0.24422693739735452	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Vigna aconitifolia	Fruit		144000.0	2.261602272403151	--
Vigna unguiculata	Shoot	10500.0	102740.0	0.0038352567973591037	--
Vigna unguiculata	Seed	16000.0	120000.0	2.1691952551104605	--
Vigna unguiculata	Seed	39270.0	45132.0	-0.0826567450543023	USDA's Ag Handbook 8 and sequelae)
Vigna subterranea	Plant		75000.0	-0.8312624885957001	--
Vigna radiata	Seed	32210.0	37609.0	-0.3089307552754851	USDA's Ag Handbook 8 and sequelae)
Vigna mungo	Fruit		122000.0	1.6919046290292874	--
Vigna aconitifolia	Plant	126000.0	138000.0	0.30689442517080334	--
Viscum album	Leaf		54000.0	-1.1426072025937817	--
Vitellaria paradoxa	Seed		18000.0	-0.8987230012448024	--
Vitis vinifera	Fruit	4290.0	77000.0	0.526613994855476	--
Vitis vinifera	Stem		88000.0	0.9172643481683129	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Xanthosoma sagittifolium	Root	6000.0	146000.0	2.239927008872031	--
Xanthosoma sagittifolium	Leaf	13000.0	129000.0	0.17880072286090912	--
Yucca baccata	Root	13520.0	65000.0	-0.07306752722954081	--
Zea mays	Silk Stigma Style		33000.0	-1.0	--
Zea mays	Seed	10000.0	90000.0	1.266866356182442	--
Zingiber officinale	Root	2450.0	35000.0	-0.9297321702301228	--
Zingiber officinale	Rhizome	7700.0	200000.0	1.829986028498204	--
Zizyphus spina-christi	Fruit	44000.0	49000.0	-0.1984557330748955	--
Zizyphus jujuba	Leaf		86000.0	-0.5788064877331136	--
Zizyphus jujuba	Shoot		108000.0	0.1256372236146203	--
Zizyphus jujuba	Fruit	6000.0	35000.0	-0.5609905970400813	--
Zizyphus jujuba	Seed	13000.0	17000.0	-0.9288006312090696	--