

P Artemisia annua

Common Name(s)

Annual Mugwort (GRIN), Annual Wormwood (GRIN), Qinghao, Sweet Annie, Sweet Wormwood (GRIN)

How Used

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Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	(E)-6-METHYL-3,5-HEPTADIEN-2-ONE	Leaf	25	375		
0	(E)-ALPHA-BERGAMOTOL	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
67	1,8-CINEOLE	Shoot	1	6600	-0.0019339060453946566	
67	1,8-CINEOLE	Leaf	2360	6600	0.3187048852429541	
0	2,2,6-TRIHYDROXYCHROMONE	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	2,2-DIHYDROXY-6-METHOXYCHROMONE	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	2,3-DIHYDRO-1,8-CINEOLE	Shoot	1	40		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	3,3,6-TRIMETHYL-HEPTA-1,5-DIEN-4-OL	Plant	--	--		

Chemical Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	3,5-DIHYDROXY-6,7,3',4'-TETRAMETHOXYFLAVONE	Plant	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	3-ISOBUTYLCADIN-4-EN-11-OL	Plant	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	3-METHYL-PINOCARVONE	Plant	--	--	
0	4,5-SECOCADINANE	Plant	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	5,2',4'-TRIHYDROXY-6,7,5'-TRIMETHOXYFLAVONE	Plant	--	--	
0	5,7,8,3'-TETRAHYDROXY-3,4'-DIMETHOXYFLAVONE	Plant	--	--	
0	5-NONDECYLRESORCINOL-3-O-METHYL-ETHER	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	6,7,3',4'-TETRA-O-METHYL-QUERCETAGETIN	Leaf	--	--	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	6,7-DEHYDROARTEMISINIC-ACID	Plant	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	6-METHOXYKAEMPFEROL	Plant	--	--	
0	6-METHOXYKAEMPFEROL-3-O-GLUCOSIDE	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	7-HYDROXY-6,8-DIMETHOXYCOUMARIN	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	ALLO-AROMADENDRENE	Leaf	60	3380	0.5792235540033643

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-AMYRENONE	Plant	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
10	ALPHA-AMYRIN	Plant	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
20	ALPHA-BISABOLOL	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	ALPHA-CADINENE	Plant	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
3	ALPHA-CADINOL	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	ALPHA-CARYOPHYLLENE	Plant	--	--	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	ALPHA-COPAENE	Plant	4	620	2.6088478815042415
0	ALPHA-FENCHENE	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	ALPHA-GUAIENE	Plant	15	1880	-1
2	ALPHA-HUMULENE	Leaf	1	285	0.016038059526224918
0	ALPHA-HYDROXYSANTONIN	Plant	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	ALPHA-MYRCENE-HYDROPEROXIDE	Plant	45	600	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
28	ALPHA-PINENE	Shoot	12	3760	0.6344499235339521	
28	ALPHA-PINENE	Leaf	1345	3760	0.019571775376842463	
13	ALPHA-TERPINENE	Leaf	4	11715	5.741186992571873	
23	ALPHA-TERPINEOL	Plant	2	1215	0.45987844614126255	
0	ALPHA-THUJENE	Plant	--	6500	3.4068336142288143	
0	ANNPHENONE	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	ANNUADIEPOXIDE	Shoot	--	--		
0	ANNULIDE	Plant	--	--		
101	APIGENIN	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	ARTEANNUIC-ACID	Plant	1	1400		
0	ARTEANNUIC-ACID-ALCOHOL	Root	--	--		
0	ARTEANNUIN-A	Plant	1280	5960		
3	ARTEANNUIN-B	Plant	800	5960		
0	ARTEANNUIN-C	Plant	--	--		
0	ARTEANNUIN-D	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	ARTEANNUIN-E	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.

Chemical Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0 ARTEANNUIN-F	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0 ARTEANNUIN-G	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
7 ARTEMETIN	Tissue Culture	--	740		
0 ARTEMISIA-ALCOHOL	Plant	16	3000	1	
0 ARTEMISIA-KETONE	Leaf	2200	16000	1	
0 ARTEMISIATRIENE	Plant	3	40		
2 ARTEMISIC-ACID	Plant	--	--		
0 ARTEMISIC-ACID-METHYL-ESTER	Plant	--	--		Father Nature's Pharmacy: The aggregate of all these three-letter citations.
0 ARTEMISILACTONE	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0 ARTEMISIN	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0 ARTEMISINIC-ACID	Plant	1600	25000		
15 ARTEMISININ	Leaf	10	5000		
15 ARTEMISININ	Flower	100	5000		Father Nature's Pharmacy: The aggregate of all these three-letter citations.
0 ARTEMISININ-B	Plant	--	--		
0 ARTEMISININ-C	Plant	--	--		
0 ARTEMISINOL	Plant	--	--		Father Nature's Pharmacy: The aggregate of all these three-letter citations.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	ARTEMISITENE	Plant	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	ARTEMISITINE	Plant	--	--	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	ARTEMISYL-ACETATE	Plant	--	--	Father Nature's Farmacy: The aggregate of all these three-letter citations.
15	ASCARIDOLE	Shoot	10	400	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
7	ASTRAGALIN	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
7	AXILLARIN	Plant	--	--	
0	BAURENOL	Plant	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	BENZYL-3-METHYL-BUTYRATE	Leaf	10	360	
9	BETA-AMYRIN	Plant	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
4	BETA-AMYRIN-ACETATE	Plant	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	BETA-ARTEANNUAN	Plant	--	--	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in Artemisia annua. Plant Science, 75: 161-165, 1991.
0	BETA-CADINENE	Leaf	5	200	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	BETA-CARYOPHYLLENE	Plant	15	2240	2.028337893386577	
0	BETA-CUBEBENE	Leaf	55	1775	4.912450928332629	
5	BETA-ELEMENE	Plant	3	80	-0.17954660749211812	
0	BETA-FARNESENE	Leaf	25	1520	1.2641397604287192	
0	BETA-FARNESENE	Plant	--	--		
0	BETA-ISOCOMENE	Root	--	--		
0	BETA-LINALOOL-OXIDE	Shoot	3	120		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	BETA-MYRCENE-HYDROPEROXIDE	Plant	48	640		
13	BETA-PINENE	Plant	--	--		
13	BETA-PINENE	Shoot	3	840	-0.06226005738154163	
0	BETA-SABINENE-HYDRATE	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
3	BETA-SELINENE	Plant	--	--		
47	BETA-SITOSTEROL	Plant	--	--		
47	BETA-SITOSTEROL	Shoot	--	--		
47	BETA-SITOSTEROL	Root	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	BETA-THUJENE	Plant	50	6500		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.

Chemical Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0 BISABOLOL-OXIDE	Shoot	5	200		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0 BONANZIN	Plant	--	--		
35 BORNEOL	Plant	6	520	-0.20102331887336136	
12 BORNYL-ACETATE	Plant	--	40	-0.44342333019067204	
0 CADIN-4(15),11-DIEN-9-ONE	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0 CADIN-4,7(11)-DIEN-12-AL	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0 CADINENOL	Plant	15	680		
9 CAMPHENE	Plant	12	920	0.9679096269856168	
0 CAMPHENE-HYDRATE	Leaf	4	2820		
41 CAMPHOR	Leaf	100	6460	-0.0534217853770054	
0 CAPILLENE	Plant	80	80		Father Nature's Farmacy: The aggregate of all these three-letter citations.
37 CARVACROL	Shoot	40	1640	-0.4292748573282448	
19 CARVONE	Shoot	3	120	-0.23911192134150755	
8 CARYOPHYLLENE-OXIDE	Plant	--	--		
8 CARYOPHYLLENE-OXIDE	Leaf	30	700	2.5915887501581745	
8 CARYOPHYLLENE-OXIDE	Shoot	75	2920	6.004003488123152	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
6 CASTICIN	Plant	--	40		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
7	CHRYSOERIOL	Plant	--	--	
8	CHRYOSPLENETIN	Plant	--	350	
8	CHRYOSPLENETIN	Tissue Culture	--	650	
9	CHRYOSPLENOL-D	Plant	--	1000	
9	CHRYOSPLENOL-D	Tissue Culture	--	625	
0	CIRCIEIOL	Plant	--	--	
0	CIRCILINEOL	Plant	--	--	
0	CIRCIMARITRIN	Plant	--	--	
10	CIRSILINEOL	Plant	--	60	
10	CIRSILINEOL	Tissue Culture	--	500	
10	CIRSILINEOL	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
3	CIRSILIOL	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	CIS-CHRYSANTHENOL	Plant	1	2000	
0	CIS-CHRYSANTHENYL-ACETATE	Plant	6	120	
0	CIS-EPOXYOCIMENE	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	CIS-SABINENE-HYDRATE	Plant	1	200	0.6462396290052647

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	CIS-SABINOL	Plant	--	45	-1	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	CIS-THUJ-2-EN-4-OL	Plant	3	530		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
57	COUMARIN	Plant	--	--		Father Nature's Farmacy: The aggregate of all these three-letter citations.
57	COUMARIN	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
10	CUMINALDEHYDE	Leaf	--	--		Father Nature's Farmacy: The aggregate of all these three-letter citations.
10	CUMINALDEHYDE	Shoot	4	160	0.5953580799824844	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	DEHYDROARTEMISINIC-ACID	Plant	--	--		
9	DELTA-CADINENE	Plant	--	--		
0	DEOXYARTEANNUIN-B	Plant	--	--		
2	DEOXYARTEMISININ	Plant	--	--		
0	DEOXYISOARTEMISININ-B	Plant	--	--		
0	DEOXYISOARTEMISININ-C	Plant	--	--		
0	DIHYDRO-DEOXYARTEANNUIN-B	Plant	--	--		
0	DIHYDROARTEMISIC-ACID	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	DIHYDROXYCADINANOLIDE	Plant	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	EO	Leaf	1400	23500	2.5037732439905036	
0	EPICUBENOL	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	EPIDEOXYARTEANNUIN-B	Plant	--	--		
0	EPOXYARTEMISIC-ACID	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	EUPALITIN	Plant	--	--		
8	EUPATORIN	Plant	--	190		
2	FRIEDELIN-3-BETA-OL	Leaf	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
2	FRIEDELIN	Leaf	--	--		
2	FRIEDELIN	Root	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	FRIEDELIN-3BETA-OL	Plant	--	--		
0	GAMMA-CARYOPHYLLENE	Plant	--	--		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	GAMMA-ELEMENE	Plant	12	600	2.641486307777503	
0	GAMMA-SELINENE	Shoot	35	1400	1	
11	GAMMA-TERPINENE	Plant	1	830	-0.19640892696882867	
35	GERANIOL	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	GERMACRENE-D	Plant	24	7320	5.747275659742257	
0	HENTRIACONTANYLTRIACONTANOATE	Plant	--	--		
2	HUMULENE	Plant	1	120	1	
0	ISOANNUALIDE	Plant	--	--		
0	ISOANNULIDE	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	ISOARTEMISIA-ACETATE	Plant	--	--		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	ISOARTEMISIA-ALCOHOL	Plant	--	--		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	ISOARTEMISIA-KETONE	Plant	3400	3400		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	ISOCOMENE	Root	--	--		
16	ISOEUGENOL	Leaf	1	45		
0	ISOKAEMPFERIDE	Plant	--	--		
4	ISOPINOCAMPHONE	Plant	--	40		
22	ISOQUERCITRIN	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
11	ISORHAMNETIN	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
75	KAEMPFEROL	Plant	--	--		
75	KAEMPFEROL	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
4	KAEMPFEROL-3-O-GLUCOSIDE	Plant	--	--		
60	LIMONENE	Shoot	2	80	-0.28771498042117827	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
60	LIMONENE	Plant	--	1200	0.2517004840277634	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
53	LINALOOL	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	LONGIPILENE	Leaf	1	60		
78	LUTEOLIN	Plant	--	--		
0	LUTEOLIN-7-METHYL-ETHER	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
2	LUTEOLIN-7-O-GLUCOSIDE	Plant	--	--		
0	MAALIENE	Root	--	--		
63	MENTHOL	Plant	--	--		
3	METHYL-ACETATE	Plant	--	--		
0	METHYL-PINOCARVONE	Plant	--	--		
22	MYRCENE	Plant	12	2040	1.7651559766358145	
0	MYRCENOL	Plant	--	--		
5	MYRTENAL	Shoot	5	200	-0.04147148010417455	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
5	MYRTENAL	Leaf	6	200	3.685440790449997	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	MYRTENOL	Leaf	3	40	-0.10816745819583165	
2	MYRTENOL	Shoot	6	240	0.14877125069093244	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
5	NERYL-ACETATE	Plant	12	160	-0.32203126186907166	
0	NONACOSANOL	Plant	--	--		Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in Artemisia annua. Plant Science, 75: 161-165, 1991.
0	NORANNUIC-ACID	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	O-CYMENE	Plant	--	--		
2	OCIMENE	Plant	--	--		
6	OCTACOSANOL	Plant	--	--		Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in Artemisia annua. Plant Science, 75: 161-165, 1991.
64	OLEANOLIC-ACID	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
16	P-CYMENE	Shoot	10	400	-0.1843115107377468	
16	P-CYMENE	Plant	--	--		
0	P-ETHYLCUMENE	Leaf	1	130		
2	PATULETIN	Plant	--	--		
0	PATULETIN-3-O-GLUCOSIDE	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
4	PENDULETIN	Plant	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	PHYTENE-1,2-DIOL	Plant	--	--		
1	PHYTOL	Plant	--	--		
0	PINOCARVENONE	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	PINOCARVEOL	Shoot	55	2200	1	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	PINOCARVEOL	Plant	--	--		
0	PINOCARVYL-ACETATE	Plant	--	--		
3	PONTICAEPOXIDE	Shoot	--	--		
0	QINGHAOSU-IV	Plant	--	--		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	QUERCETAGETIN-3,4'-DIMETHYLETHER	Plant	--	--		
0	QUERCETAGETIN-3-METHYLETHER	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	QUERCETAGETIN-4'-METHYLETHER	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
2	QUERCETAGETIN-6,7,3',4'-TETRAMETHYLETHER	Plant	--	--		
0	QUERCETAGETIN-6,7,4'-TRIMETHYLETHER	Plant	--	--		Father Nature's Farmacy: The aggregate of all these three-letter citations.
176	QUERCETIN	Plant	--	--		
0	QUERCETIN-3-O-GLUCOSIDE	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
6	QUERCIMERITRIN	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
18	RHAMNETIN	Plant	--	--	
7	RHAMNOCITRIN	Plant	--	--	
0	SABINAKETONE	Leaf	5	200	
5	SABINENE	Leaf	--	1520	0.7072433248792381
5	SABINOL	Leaf	50	680	1.0356295255642778
0	SABINYL-ACETATE	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	SANTOLINATRIENE	Leaf	15	80	
22	SCOPARONE	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
44	SCOPOLETIN	Plant	--	--	
3	SCOPOLIN	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	SECOCADINANE	Plant	--	--	
0	SILPHINENE	Root	--	--	
0	SPATHULENOL	Shoot	--	--	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
12	STIGMASTEROL	Root	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
12	STIGMASTEROL	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
12	STIGMASTEROL	Plant	--	--		
0	TAMERIXETIN	Plant	--	--		
0	TARAXASTERONE	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	TARAXERYL-ACETATE	Root	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
23	TERPINEN-4-OL	Plant	15	1135	0.21296450672015324	
0	TETRATRIACONTANE	Plant	--	--		
71	THYMOL	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	TOMENTIN	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
0	TRANS-2,7-DIMETHYL-4,6-OCTADIEN-2-OL	Leaf	6	120		
0	TRANS-5-HYDROXY-2-ISOPROPENYL-5-METHYLHEX-3-EN-1-OL	Plant	--	--		
0	TRANS-ALPHA-OCIMENE	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	TRANS-BETA-FARNESENE	Plant	15	1520	2.4368963000117096	
0	TRANS-CARYOPHYLLENE-OXIDE	Plant	25	765		
0	TRANS-CHRYSANTHENYL-ACETATE	Plant	6	120		
0	TRANS-NEROLIDOL	Shoot	2	80	-1.414213562373095	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
2	TRANS-PINOCARVEOL	Plant	1	40	-1	
0	TRANS-SABINENE-HYDRATE	Plant	--	1	-0.398820639243658	
0	TRANS-VERBENOL	Shoot	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
5	VERBENONE	Plant	20	625	0.6025658340962582	
1	YLANGENE	Plant	--	--		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	YOMOGI-ALCOHOL	Plant	12	360	1	