

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-------------------------------------|------------------------------------|----------------------|-----------------------------|----------|-----|-----------------|--------------------------------|-------------|-----|---------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Pinaceae | Abies alba | silver/European fir | * | <0.1 | | 38,60 | * | | | 38 |
| Pinaceae | Abies balsamea | balsam fir | - | | | [2] | | | | |
| Pinaceae | Abies bracteata | bristlecone fir | - | | | [2] | | | | |
| Pinaceae | Abies cephalonica | Greek fir | * | | | [2] | | | | |
| Pinaceae | Abies cilicica | Turkish fir | * | | | [2] | | | | |
| Pinaceae | Abies concolor | white fir | - | | | [2] | | | | |
| Pinaceae | Abies fraseri | Fraser fir | - | | | [2] | * | | | [2] |
| Pinaceae | Abies insignis | | * | | | [2] | | | | |
| Pinaceae | Abies l.var.arizonica | corkbark fir | - | | | [2] | | | | |
| Pinaceae | Abies lasiocarpa | subalpine fir | - | | | [2] | | | | |
| Pinaceae | Abies magnifica | California red fir | - | | | [2] | | | | |
| Pinaceae | Abies marocana | Morocco fir | * | | | [2] | | | | |
| Pinaceae | Abies nebrodensis | Sicily fir | - | | | [2] | | | | |
| Pinaceae | Abies numidica | Algerian fir | * | | | [2] | | | | |
| Pinaceae | Abies pardei | | * | | | [2] | | | | |
| Pinaceae | Abies pinsapo | Spanish fir | * | | | [2] | | | | |
| Pinaceae | Abies procera | noble fir | - | | | [2] | | | | |
| Pinaceae | Abies spp. | fir | * | <0.1 | | 49 | * | 3±1.5 | | 49,60 |
| Leguminosae (Mimosaceae) | Acacia baileyana | cootamundra-wattle | - | | | [2] | | | | |
| Leguminosae (Mimosaceae) | Acacia berlandieri | | - | | | 56 | - | | | 56 |
| Leguminosae (Mimosaceae) | Acacia dealbata | | - | | | [40] | * | 0.85 | | [40] |
| Leguminosae (Mimosaceae) | Acacia decurrens | green wattle | - | | | [2] | | | | |
| Leguminosae (Mimosaceae) | Acacia farnesiana | sweet acacia | - | | | [3],56 | - (*) | 4.65 | | 56,[3] |
| Leguminosae (Mimosaceae) | Acacia greggii | cat's claw | - | | | [2],56 | - | | | 56 |
| Leguminosae (Mimosaceae) | Acacia longifolia (adult) | | - | | | [40] | * | 2.04 | | [40] |
| Leguminosae (Mimosaceae) | Acacia longifolia (young) | | - | | | [40] | * | 0.74 | | [40] |
| Leguminosae (Mimosaceae) | Acacia melanoxylon | blackwood acacia | - | | | [2] | | | | |
| Leguminosae (Mimosaceae) | Acacia nigrescens | African akazia | * | 110 | | 106 | * | 0.7 | | 106 |
| Leguminosae (Mimosaceae) | Acacia pennata | | - | | | 107 | | | | |
| Leguminosae (Mimosaceae) | Acacia pentagona | | - | | | 107 | | | | |
| Leguminosae (Mimosaceae) | Acacia podalyriaefolia | pearl acacia | - | | | [2] | | | | |
| Leguminosae (Mimosaceae) | Acacia rigidula | | - | | | 56 | * | | | 56 |
| Leguminosae (Mimosaceae) | Acacia sophorae | Sydney wattle | - | | | [2] | | | | |
| Leguminosae (Mimosaceae) | Acacia spp. | acacia | * | <0.1 | | 49 | * | 3±1.5 | | 49 |
| Leguminosae (Mimosaceae) | Acacia tortilis | | * | <0.5 | | 106 | * | 8.8 | | 106 |
| Aceraceae | Acer campestre | | - * | <0.1 | | 39;60 | - | | | 39 |
| Aceraceae | Acer floridanum | silver/Florida maple | - | | | 28,30 | * | 2±0.5 | sd | 28,30 |
| Aceraceae | Acer platanoides | Norway maple | * | <0.04 | | 83 | | | | |
| Aceraceae | Acer pseudoplatanus | sycamore (European) | - | | | [35] | - | | | [35] |
| Aceraceae | Acer rubrum | red maple | - | | | 1,[2],[3],10,30 | * | 2.75 | | [3],30 |
| Aceraceae | Acer saccharinum | silver maple | - | | | 1,[2] | * | 1.94 | | 1 |
| Aceraceae | Acer spp. | | * | <0.1 | | 49,60,87 | * | 0.9-1.6±0.8 | | 49,87 |
| Myrtaceae | Acmena smithii | lilly-pilly tree | * | | | [2] | | | | |
| Cupressaceae | Actinostrobus pyramidalis | | - | | | [2] | | | | |
| Leguminosae (Fabaceae) (Mimosaceae) | Adenocarpus decorticans | | * | | | [2] | | | | |
| Rosaceae | Adenostoma fasciculatum (in bloom) | common chamise | - | | | [2] | * | 0.36 | | 4,34,86 |

| | Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|--|------------------------------|--|--------------------------------|-----------------------------|----------|-----|-----------|--------------------------------|----------|-----|---------|
| | | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| | Rosaceae | Adenostoma fasciculatum (not in bloom) | common chamise | - | | | [2],58 | - | | | 58 |
| | Rosaceae | Adenostoma sparsifolium | red shanks | - | | | [2] | | | | |
| | Pteridophyta | Adiantum capillus-veneris | | * | | | 109 | | | | |
| | Pteridophyta | Adiantum trapeziform | | - | | | 109 | | | | |
| | Hippocastanaceae | Aesculus flava | yellow buckeye | * | <1 | | 65 | * | <0.2 | | 65 |
| | Hippocastanaceae | Aesculus hippocastanum | horse chestnut | - | | | [2] | | | | |
| | Zingiberaceae | Aframomum giganteum | | - | | | 107 | | | | |
| | Leguminosae (Papilionaceae) | Afrormosia laxiflora | | * | 0.19 | # | 107 | | | | |
| | Styracaceae | Afrostyrax lepidophyllus | | * | | | 107 | | | | |
| | Connaraceae | Agelaea dewevrei | | * | | | 107 | | | | |
| | Myrtaceae | Agonis flexuosa | willow myrtle | * | | | [2] | | | | |
| | Gramineae (Poaceae) | Agrostis curtissii | | * | 4.4 | | [40] | * | 0.51 | | [40] |
| | Simaroubaceae | Ailanthus altissima | tree of heaven | - | | | [2] | | | | |
| | Leguminosae (Mimosaceae) | Albizia adianthifolia | | * | | | 107 | | | | |
| | Leguminosae (Mimosaceae) | Albizia ferruginea | | * | 0.026 | # | 107 | | | | |
| | Leguminosae (Mimosaceae) | Albizia glaberrima | | - | | | 107 | | | | |
| | Leguminosae (Mimosaceae) | Albizia julibrissin | silk tree | (-) * | 10-40 | | [2];65 | * | <0.2 | | 65 |
| | Leguminosae (Mimosaceae) | Albizia zygia | | - | | | 107 | | | | |
| | Euphorbiaceae | Alchornea cordifolia | | - | | | 107 | | | | |
| | Euphorbiaceae | Aleurites fordii | | - | | | 107 | | | | |
| | Chenopodiaceae | Allenrolfea occidentalis | bush pickleweed | - | | | [2] | | | | |
| | Liliaceae | Allium cepa | onion (South Port White Globe) | - | | | 4 | - | | | 4 |
| | Liliaceae | Allium ursinum | wild garlic | - | | | 80 | - | | | 80 |
| | Sapindaceae | Allophyllus africanus | | - | | | 107 | | | | |
| | Betulaceae | Alnus cordata | | - | | | [2] | | | | |
| | Betulaceae | Alnus glutinosa | | - | | | 39,[40] | - (*) | (5.39) | | 39:[40] |
| | Betulaceae | Alnus rubra | red alder | (-) * | 0.024 | | [2];111 | | | | |
| | Betulaceae | Alnus sp. | | * | <0.1 | | 60,39 | | | | |
| | Verbenaceae | Aloysia gratissima | | * | <0.1 | | 56 | * | | | 56 |
| | Pteridophyta (Cyatheaceae) | Alsophila cooperi | cooper tree fern | * | | | [2] | | | | |
| | Apocynaceae | Alstonia boonei | | - | | | 107 | | | | |
| | Apocynaceae | Alstonia congensis | | - | | | 107 | | | | |
| | Malvaceae | Althaea spp. | hollyhock | - | | | [2] | | | | |
| | Compositae (Asteraceae) | Ambrosia artemisiifolia | low ragweed | - | | | [2] | | | | |
| | Compositae (Asteraceae) | Ambrosia spp. | ragweed | - | | | [2] | | | | |
| | Rosaceae | Amelanchier alnifolia | serviceberry | * | <1 | | 65 | * | <0.2 | | 65 |
| | Rosaceae | Amelanchier canadensis | shadbush | - | | | [2] | | | | |
| | Leguminosae | Amorpha californica | California false indigo | * | | | [2] | | | | |
| | Leguminosae | Amorpha fruticosa | lidigo bush | * | | | [2] | | | | |
| | Leguminosae (Caesalpinaceae) | Amphimas pterocarpoides | | - | | | 107 | | | | |
| | Rutaceae | Amyris elemifera | | - | | | 108 | | | | |
| | Anacardiaceae | Anacardium spp. | espave | - | | | [2] | | | | |
| | Ancistrocladaceae | Ancistrocladus korupensis | | - | | | 107 | | | | |
| | Arecaceae | Ancistrophyllum secundiflorum | | * | | | 107 | | | | |
| | Connaraceae | Angelea dewevrei | | * | | | Pers Comm | | | | |
| | Pteridophyta | Angiopteris evecta | | - | | | [2] | | | | |

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|--|-----------------------------|---------------------------|-------------------------------|-----------------------------|-------------|-----|----------------|--------------------------------|---------------|-----|---------------|
| | | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| | Annonaceae | Annona muricata | soursop | - | | | [2] | | | | |
| | Annonaceae | Annona senegalensis | | - | | | 107 | | | | |
| | Annonaceae | Anonidium mannii | | - | | | 107 | | | | |
| | Leguminosae (Papilionaceae) | Anthyllis cytisoides | | - | | | 105 | * | 0.2±0.2 | sd | 105 |
| | Rubiaceae | Antirhea acutata | | - | | | 108 | | | | |
| | Cunoniaceae | Aphanopetalum resinosum | lightwood | - | | | [2] | | | | |
| | Leguminosae | Arachis glabrata | peanut | * | (0.138) | | 1,[110] | * | 0.345 | | [110] |
| | Leguminosae | Arachis hypogaea | | * | | | 1 | | | | |
| | Araucariaceae | Araucaria araucana | monkey puzzle tree | - | | | [2] | | | | |
| | Araucariaceae | Araucaria excelsa | Norfolk Island pine | - | | | [2] | | | | |
| | Ericaceae | Arbutus menziesii | Pacific madrone | - | | | [2] | | | | |
| | Ericaceae | Arbutus unedo | strawberry tree | - * | 0.1 | | [40],61,75; 81 | * | 0.12-0.3 | | [40],61,75 |
| | Ericaceae | Arbutus unedo (May) | strawberry tree | - | | | 105 | * | 0.1±0.01- | | |
| | Ericaceae | Arbutus unedo (October) | strawberry tree | - | | | 105 | * | 0.2±0.1 | sd | 105 |
| | Ericaceae | Arctostaphylos columbiana | manzanita | - | | | [2] | | 0.01±0.01 | sd | 105 |
| | Ericaceae | Arctostaphylos glandulosa | eastwood/peninsular manzanita | - | | | [2],58 | - | | | 58 |
| | Ericaceae | Arctostaphylos glauca | bigberry manzanita | - * | | | 4;28 | - * | | | 4;28 |
| | Ericaceae | Arctostaphylos pungens | Mexican manzanita | - | | | [2] | | | | |
| | Ericaceae | Arctostaphylos sp. | peninsular manzita | - | | | 58 | - | | | 58 |
| | Arecaceae | Arecastnum romanzoffianum | queens palm | * | | | [2] | | | | |
| | Arecaceae | Arenga engleri | Formosa sugar palm | - | | | [2] | | | | |
| | Gramineae (Poaceae) | Arrhenatherum elatius | oat grass | - | | | [35] | - | | | [35] |
| | Compositae (Asteraceae) | Artemisia | | - | | | Puxbaum et al. | * | 0.2 | | Puxbaum et al |
| | Compositae (Asteraceae) | Artemisia californica | California sagebrush | - | | | 28,58 | * | 8.0-(<47) | | 28,58 |
| | Compositae (Asteraceae) | Artemisia tridentata | basin/big sagebrush | (-) * | <1 | | [2];65 | * | <0.2 | | 65 |
| | Moraceae | Artocarpus falcata | | * | | | 107 | | | | |
| | Moraceae | Artocarpus heterophyllus | | * | | | 107 | | | | |
| | Poaceae | Arundinaria alpina | | * | | | 107 | | | | |
| | Gramineae (Poaceae) | Arundo donax | reed grass/giant reed | * | 38.6-174±12 | sd | 15,81,105 | * - | 0.2 | | 81;105 |
| | Asclepiadaceae | Asclepias speciosa | milkweed | - | | | 1 | | | | |
| | Liliaceae | Asparagus spp. | asparagus | - | | | [2] | | | | |
| | Pteridophyta | Aspidium tsus-simense | | - | | | [2] | | | | |
| | Pteridophyta | Asplenium daucifolium | | - | | | 109 | | | | |
| | Pteridophyta | Asplenium nidus | | - | | | [2], 109 | | | | |
| | Myrtaceae | Astartea fascicularis | | * | | | [2] | | | | |
| | Musci | Atrichum undulatum | | * | | | 109 | | | | |
| | Chenopodiaceae | Atriplex canescens | saltbush | * | <1 | | 56,65 | * | >3 | | 56,65 |
| | Chenopodiaceae | Atriplex parryi | Parry saltbush | - | | | [2] | | | | |
| | Chenopodiaceae | Atriplex polycarpa | grey desert saltbush | - | | | [2] | | | | |
| | Chenopodiaceae | Atriplex spp. | saltbush | - | | | [2] | | | | |
| | Gramineae (Poaceae) | Avena sativa "Dula" | oat | - * | 0.01 | | [35];[110] | - * | 0.026 | | [35];[110] |
| | Gramineae (Poaceae) | Avena spp. | reed oat grass | - | | | [2] | | | | |
| | Gramineae (Poaceae) | Avena spp., Bromus spp. | annual grassland | | | | | * | <0.02 | t33 | 34 |
| | Rhizophoraceae | Avicennia germinans | black mangrove | - | | | [3] | - | | | [3] |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-------------------------------|-------------------------|----------------------------|-----------------------------|----------|-----|------------|--------------------------------|----------|-----|------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Rhizophoraceae | Avicennia spp. | | * | <0.1 | | 49 | * | <0.1 | | 49 |
| Salvinaceae | Azolla sp. | | * | | | 5 | | | | |
| Berberidaceae | B. t. var. atropurpurea | red barberry | * | | | [2] | | | | |
| Compositae (Asteraceae) | Baccharis texana | | * | <0.1 | | 56 | * | <0.1 | | 56 |
| Myrtaceae | Baeckea virgata | | * | | | [2] | | | | |
| Zygophyllaceae | Balanites wilsoniana | | - | | | 107 | | | | |
| Gramineae (Poaceae) | Bambusa multiplex | bamboo | * | | | [2] | | | | |
| Gramineae (Poaceae) | Bambusa spp. | bamboo | * | | | [2] | | | | |
| Gramineae (Poaceae) | Bambusa vulgaris | bamboo | * | | | 107 | | | | |
| Proteaceae | Banksia ashbyi | | * | | | [2] | | | | |
| Proteaceae | Banksia larcina | | * | | | [2] | | | | |
| Leguminosae (Papilionaceae) | Baphia nitida | | * | | | 107 | | | | |
| Passifloraceae | Barteria fistulosa | | - | | | 107 | | | | |
| Hepaticae | Bazzania trilobata | | - | | | 109 | | | | |
| Berberidaceae | Berberis aquafolium | | * | | | 1,[2] | | | | |
| Berberidaceae | Berberis dictyota | California barberry | * | | | [2] | | | | |
| Berberidaceae | Berberis nervosa | Cascade mahonia | * | | | [2] | | | | |
| Berberidaceae | Berberis nevinii | nevin barberry | * | | | [2] | | | | |
| Berberidaceae | Berberis pinnata | shinyleaf barberry | * | | | [2] | | | | |
| Berberidaceae | Berberis thunbergii | green barberry | * | | | [2] | | | | |
| Berberidaceae | Berberis trifoliata | | * | | | 56 | * | | | 56 |
| Leguminosae (Caesalpiniaceae) | Berlinia bracteosa | | * | 0.004 | # | 107 | | | | |
| Leguminosae (Caesalpiniaceae) | Berlinia confusa | | * | | | 107 | | | | |
| Leguminosae (Caesalpiniaceae) | Berlinia grandifolia | | * | 0.658 | # | 107 | | | | |
| Chenopodiaceae | Beta vulgaris | sugar beet | - | | | 1 | | | | |
| Chenopodiaceae | Beta vulgaris | fodder beet (Hugin) | - | | | [35] | - | | | [35] |
| Chenopodiaceae | Beta vulgaris | sugar beet (UC/H12) | - | | | 4 | - | | | 4 |
| Betulaceae | Betula lenta | sweet/cherry birch | - | | | 10 | | | | |
| Betulaceae | Betula lutea | yellow birch | * | | | 1 | | | | |
| Betulaceae | Betula papyrifera | paper birch | * - | | | 1,[2] | | | | |
| Betulaceae | Betula pendula | silver birch | - | | | [35],73,88 | * | 0.19-5.4 | | [35],73,88 |
| Betulaceae | Betula pubescens | downy birch | - | | | [35] | - | | | [35] |
| Betulaceae | Betula pubescens? | 'European birch' | * | | | 38 | - | | | 38 |
| Betulaceae | Betula sp. | birch | - * | <0.1 | | 30;60 | * | | | 30 |
| Betulaceae | Betula spp. | birch | * | <0.1 | | 49 | * | 0.2±0.1 | | 49 |
| Pteridophyta | Blechnum gibbum | | - | | | 109 | | | | |
| Sapindaceae | Blighia sp. | | * | | | 107 | | | | |
| Papaveraceae | Bocconia frutescens | plume poppy | * | | | [2] | | | | |
| Arecaceae | Borassus aethiopum | | - | | | 107 | | | | |
| Ehretiaceae | Bourreria succulenta | | - | | | 108 | | | | |
| Gramineae (Poaceae) | Bouteloua rigidisetata | | * | | | 56 | * | | | 56 |
| Gramineae (Poaceae) | Brachypodium retusum | | - | | | 105 | * | 0.2±0.04 | sd | 105 |
| Cruciferae (Brassicaceae) | Brassica napus | swede (Melfort) | - | | | [35] | - | | | [35] |
| Cruciferae (Brassicaceae) | Brassica napus | oil-seed rape (Topas) | - | | | [35],73 | (-) * | 0.075 | | [35];73 |
| Cruciferae (Brassicaceae) | Brassica napus | oil-seed rape (blossoming) | - | | | 73 | * | 0.17 | | 73 |
| Cruciferae (Brassicaceae) | Brassica oleracea | cabbage | - | | | 1 | | | | |

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| | | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| | Cruciferae (Brassicaceae) | Brassica rapa | stubble turnip (Civasto) | - | | | [35] | - | | | [35] |
| | Cruciferae (Brassicaceae) | Brassica rapa | turnip (Wallace) | - | | | [35] | - | | | [35] |
| | Euphorbiaceae | Bridelia ferruginea | | - | | | 107 | | | | |
| | Euphorbiaceae | Bridelia micrantha | | - | | | 107 | | | | |
| | Musci | Brotherella recurvans | | * | | | 109 | | | | |
| | Moraceae | Broussonetia spp. | paper mulberry | * | | | [2] | | | | |
| | Combretaceae | Bucida bursera | | - | | | 60,108 | | | | |
| | Leguminosae (Caesalpiniaceae) | Burkea africana | red syringa | * | 36 (0.204) | # | 106 (107) | * | <0.5 | | 106 |
| | Pittosporaceae | Bursaria spinosa | sweet bursaria | - | | | [2] | | | | |
| | Burseraceae | Bursera simaruba | | * | 58 | %t36 | 108 | | | | |
| | Sapotaceae | Butyrospermum parkii | | - | | | 107 | | | | |
| | Buxaceae | Buxus sempervirens | dwarf boxwood | * | 10 | | [2], 81 | * | 0.2 | | 81 |
| | Buxaceae | Buxus sempervirens (June) | dwarf boxwood | * | 6±1-10±3 | sd | 105 | - | | | 105 |
| | Buxaceae | Buxus sempervirens (October) | dwarf boxwood | * | 17±15 | sd | 105 | - | | | 105 |
| | Leguminosae (Fabaceae) (Mimosae) | Calliandra haematocephala | pink powderpuff | - | | | [2] | | | | |
| | Myrtaceae | Callistemon citrinus | bottlebrush | * | 15±6 | | 28 | - | | | 28 |
| | Myrtaceae | Callistemon lanceolatus | brilliant bottle bush | - | | | [2] | | | | |
| | Myrtaceae | Callistemon rigidis | stiff bottle bush | - | | | [2] | | | | |
| | Myrtaceae | Callistemon teretifolius | bearded bottle bush | - | | | [2] | | | | |
| | Cupressaceae | Callitris propinqua | cypress pine | - | | | [2] | | | | |
| | Ericaceae | Calluna vulgaris (ling) | heather | - | | | [35],[40] | - * | 4.61 | | [35],[40] |
| | Ericaceae | Calluna vulgaris (ling) (blooming) | heather | - | | | [40] | * | 0.22 | | [40] |
| | Flacourtiaceae | Caloncoba welwitschii | | - | | | 107 | | | | |
| | Calycanthaceae | Calycanthus floridus | spicebush | - | | | [2] | | | | |
| | Capparaceae | Capparis cynophallophora | Jamaican Caper Tree | * | 268 | %t41 | 60,108 | | | | |
| | Capparaceae | Capparis indica | Indian caper | * | 138 | %t38 | 60,108 | | | | |
| | Leguminosae | Caragana arborescens | pea tree | * | | | [2] | | | | |
| | Leguminosae | Caragana maximowicziana | | * | | | [2] | | | | |
| | Leguminosae | Caragana pekinensis | | * | | | [2] | | | | |
| | Cyperaceae (Caricaceae) | Carica papaya | papaya | - | | | [2],107 | | | | |
| | Apocynaceae | Carissa macrocarpa | Natal Plum | - * | | | 57;28 | - * | | | 57;28 |
| | Arecaceae | Carludovica insignis | hat palm | * | | | [2] | | | | |
| | Cyclanthaceae | Carludovica palmata | Panama hat palm | * | | | [2] | | | | |
| | Saxifragaceae | Carpenteria californica | tree-anemone | - | | | [2] | | | | |
| | Betulaceae | Carpinus betulus | | - | | | 73 | * | 0.04 | | 73 |
| | Betulaceae | Carpinus caroliniana | American hornbeam | - | | | [2] | | | | |
| | Betulaceae | Carpinus sp. | hornbeam | * | <0.1 | | 60 | | | | |
| | Betulaceae | Carpinus spp. | hornbeam | * | <0.1 | | 49 | * | 1.6±0.8 | | 49 |
| | Betulaceae | Carpinus tschonoskii | | - | | | [2] | | | | |
| | Compositae (Asteraceae) | Carthamus tinctorius | safflower (UC 26) | - | | | 4,34 | * | 0.03 | | 4,34,86 |
| | Juglandaceae | Carya aquatica | Water hickory | - | | | [3] | * | 0.7 | | [3] |
| | Juglandaceae | Carya cordiformis | swamp hickory | - | | | [2],[3] | | | | |
| | Juglandaceae | Carya laciniosa | shellbark hickory | - | | | [2] | | | | |
| | Juglandaceae | Carya ovata | shagbark hickory | - | | | 10 | | | | |
| | Juglandaceae | Carya sp. | red hickory | - | | | 30 | * | | | 30 |
| | Juglandaceae | Carya spp. | hickory | * | <0.1 | | 49,87 | * | 1.4-1.6±0.8 | | 49,87 |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-------------------------------|---------------------------|-----------------------------|-----------------------------|----------|-----|-----------|--------------------------------|---------------|------|------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Caesalpiniaceae | Cassia alata | | - | | | 107 | | | | |
| Leguminosae (Caesalpiniaceae) | Cassia eremophila | senna | - | | | [2] | | | | |
| Fagaceae | Castanea dentata | American chestnut | (-) * | <1 | | [2];65 | * | <0.2 | | 65 |
| Fagaceae | Castanea mollissima | Chinese chestnut | - | | | [2] | | | | |
| Fagaceae | Castanea sativa | Spanish chestnut | - | | | [2],[40] | * | 13.66 | | [40] |
| Fagaceae | Castanopsis chrysophylla | golden chinkapin | - | | | [2] | | | | |
| Casuarinaceae | Casuarina | Australian pine | * | | | [3] | - | | | [3] |
| Casuarinaceae | Casuarina cunninghamiana | beefwood | * | | | [2] | | | | |
| Casuarinaceae | Casuarina equisetifolia | horsetail beefwood | * | | | [2] | | | | |
| Casuarinaceae | Casuarina spp. | | * | 70±35 | | 49 | * | <0.1 | | 49 |
| Bignoniaceae | Catalpa speciosa | western catalpa | - | | | [2] | | | | |
| Bignoniaceae | Catalpa spp. | | * | <1 | | 65 | * | <0.2 | | 65 |
| Rhamnaceae | Ceanothus arboreus | buckbrush | - | | | [2] | | | | |
| Rhamnaceae | Ceanothus arborescens | mountain lilac | - | | | [2] | | | | |
| Rhamnaceae | Ceanothus crassifolius | hoaryleaf ceanothus | * | | | 28 | * | | | 28 |
| Rhamnaceae | Ceanothus cuneatus | buck brush | - | | | [2] | | | | |
| Rhamnaceae | Ceanothus greggii | desert ceanothus | - | | | [2] | | | | |
| Rhamnaceae | Ceanothus leucodermis | chaparral whitethorn | - | | | 4,34 | * | 5..39 | | 4,34,67,86 |
| Rhamnaceae | Ceanothus maritimus | | - | | | 1 | | | | |
| Rhamnaceae | Ceanothus spinosus | greenbark | - | | | 58 | * | <1.8 | | 58 |
| Moraceae | Cecropia peltata | | - | | | [2] | | | | |
| Pinaceae | Cedrus atlantica | Atlas cedar | - | | | [2] | | | | |
| Pinaceae | Cedrus deodara | deodar cedar | - | | | [2],28,41 | * | (0.29±0.06)-1 | T sd | 28,41 |
| Pinaceae | Cedrus spp. | | * | <0.1 | | 49 | * | 1.6±0.8 | | 49 |
| Bombacaceae | Ceiba pentandra | kapok | - | | | [2],107 | | | | |
| Ulmaceae | Celtis | hackwood | - | | | [2] | | | | |
| Ulmaceae | Celtis douglasii | Douglas hackberry | - | | | [2] | | | | |
| Ulmaceae | Celtis mildbraedii | | - | | | 107 | | | | |
| Ulmaceae | Celtis occidentalis | common hackberry | - | | | [2] | | | | |
| Ulmaceae | Celtis reticulata | net-leaf hackberry | - | | | [2] | | | | |
| Ulmaceae | Celtis spp. | | * | <0.1 | | 49 | * | 0.2±0.1 | | 49 |
| Cactaceae | Cephalocereus royenii | | - | | | 108 | | | | |
| Leguminosae | Ceratonia siliqua | St. John's carob | - | | | [2],105 | * | 1±1.7 | sd | 105 |
| Leguminosae | Ceratonia spp. | carob | - | | | [2] | | | | |
| Leguminosae | Cercidiphyllum magnificum | katsura tree | - | | | [2] | | | | |
| Leguminosae | Cercidium floridum | paloverde | - | | | [2] | | | | |
| Leguminosae | Cercidium spp. | paloverde | - | | | [2] | | | | |
| Leguminosae | Cercis canadensis | eastern redbud | * | 0.02 | | 1 | - | | | 1 |
| Leguminosae | Cercis spp. | redbud | (-) * | <0.1 | | [2];49 | * | <0.1 | | 49 |
| Rosaceae | Cercocarpus betuloides | birchleaf mountain mahogany | - | | | [2],4,58 | - | | | 4,58 |
| Rosaceae | Cercocarpus ledifolius | desert mnt mahogany | - | | | [2] | | | | |
| Rosaceae | Cercocarpus montanus | true mountain mahogany | * | <1 | | 65 | * | <0.2 | | 65 |
| Solanaceae | Cestrum diurnum | day-cestrum | - | | | [2] | | | | |
| Cupressaceae | Chamaecyparis lawsoniana | | - | | | [2] | | | | |
| Cupressaceae | Chamaecyparis obtusa | Hinoki cypress | - | | | [2] | | | | |
| Cupressaceae | Chamaecyparis spp. | | * | <0.1 | | 49 | * | 0.2 | | 49 |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-------------------------|----------------------------|-------------------------|-----------------------------|-----------|-----|----------------|--------------------------------|---------------------|------|----------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Arecaceae | Chamaerops humilis | Mediterranean fan palm | * | | | [2] | | | | |
| Leguminosae | Chamaespartium tridentatum | | * | 0.52-3.38 | | [40] | * | 0.35-2.87 | | [40] |
| Bignoniaceae | Chilopsis linearis | desert willow | - | | | [2] | | | | |
| Gramineae (Poaceae) | Chimonobambusa | square bamboo | - | | | [2] | | | | |
| Sterculiaceae | Chiranthodendron | hand flower tree | - | | | [2] | | | | |
| Gramineae (Poaceae) | Chloris cucullata | | - | | | 56 | * | | | 56 |
| Gramineae (Poaceae) | Chloris pluriflora | | - | | | 56 | - | | | 56 |
| Bombacaceae | Chorisia insignis | Palo boracho | - | | | [2] | | | | |
| Compositae (Asteraceae) | Chrysanthemum praecox | daisy | - | | | 75,105 | * | 0.3±0.2 | sd | 75,105 |
| Compositae (Asteraceae) | Chrysanthemum spp. | chrysanthemum | - | | | [2], 61,75 | * | 0.51 | | 61,75 |
| Compositae (Asteraceae) | Chrysothamnus nauseosus | rubber rabbit brush | * | <1 | | 65 | * | >3 | | 65 |
| Gramineae (Poaceae) | Chusquea spp. | giant chusqua | * | >40 | | 65 | * | <0.2 | | 65 |
| Lauraceae | Cinnamomum camphora | camphor tree | - | | | 28,41 | - * | 0.03±0.01 | T sd | 28;41 |
| Cistaceae | Cistus albidus | | - | | | 105 | * | 0.1±0.1- 0.2±0.1 | sd | 105 |
| Cistaceae | Cistus incanus | rockrose | - | | | 61,75 | * | 0.3 | | 61,75 |
| Cistaceae | Cistus incanus (May) | | - | | | 105 | * | 0.2±0.1- 0.4±0.3 | sd | 105 |
| Cistaceae | Cistus incanus (October) | | - | | | 105 | * | 0.1±0.04 | sd | 105 |
| Cistaceae | Cistus ladanifer | | - | | | [40] | * | 32.62 | | [40] |
| Cistaceae | Cistus salvifolius | salvia rockrose | - | | | [40],61,75,105 | * | 0.3±0.5-(8.17) | sd | [40],61,75,105 |
| Rutaceae | Citrus limon | meyer lemon | * | | | 28 | * | | | 28 |
| Rutaceae | Citrus limon (Lisbon) | Lisbon lemon | - | | | 4,34 | * | 3.29 | | 4,34,67 |
| Rutaceae | Citrus limon ? | lemon | - | | | [40] | * | 0.13-0.35 | | [40],67 |
| Rutaceae | Citrus mitis | calamondin orange | - | | | [2] | | | | |
| Rutaceae | Citrus nobilis | king orange | - | | | [2] | | | | |
| Rutaceae | Citrus paradisi | grapefruit | - | | | [3] | * | | | [3] |
| Rutaceae | Citrus sinensis | sweet orange | - | | | [2],[3],[40] | * | 0.17 | | [3],[40] |
| Rutaceae | Citrus sinensis | Washington Navel orange | - | | | 4,34 | * | 1.8 | | 4,34,67,86 |
| Rutaceae | Citrus sinensis | Valencia orange | - | | | 4,34 | * | 0.91 | | 4,34,67,86 |
| Rutaceae | Citrus sp. | | * | <0.1 | | 60 | * | 1.3 | | 67,76 |
| Rutaceae | Citrus spp. | | * | <0.1 | | 49 | * | 1.6±0.8 | | 49 |
| Cyperaceae | Cladium effusum | sawgrass | - | | | [3] | * | | | [3] |
| Leguminosae | Cladrastis lutea | yellow wood | * | | | [2] | | | | |
| Leguminosae | Cladrastis platycarpa | | * | | | [2] | | | | |
| Leguminosae | Cladrastis spp. | | - | | | [2] | | | | |
| Annonaceae | Cleiotopholis patens | | - | | | 107 | | | | |
| Apocynaceae | Clitandra cymulosa | | - | | | 107 | | | | |
| Guttiferae | Clusia rosea | | * | | | 108 | | | | |
| Polygonaceae | Coccoloba diversifolia | | - | | | 60 | | | | |
| Polygonaceae | Coccoloba krugii | | - | | | 60,108 | | | | |
| Polygonaceae | Coccoloba microstachya | | - | | | 60,108 | | | | |
| Arecaceae | Cocos nucifera | coconut palm | * | | | [2] | | | | |
| Myristicaceae | Coelocaryon botryoides | | - | | | 107 | | | | |
| Rubiaceae | Coffea arabica | coffee | - | | | [2] | | | | |
| Rubiaceae | Coffea sp. | coffee | - | | | 107 | | | | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-------------------------------|------------------------------|---------------------|-----------------------------|----------|------|-----------|--------------------------------|----------|-----|-----------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Leguminosae (Caesalpiniaceae) | Colophospermum mopane | mopane | * | <0.5 | | 106 | * | 52 | | 106 |
| Rhamnaceae | Colubrina taxensis | | * | <0.1 | | 56 | * | <0.1 | | 56 |
| Leguminosae | Colutea orientalis | | - | | | [2] | | | | |
| Leguminosae | Colutea persica | | - | | | [2] | | | | |
| Ericaceae | Comarostaphylis diversifolia | summer holly | - | | | [2] | | | | |
| Combretaceae | Combretum apiculatum | myrobolan family | * | <0.5 | | 106 | * | <0.5 | | 106 |
| Combretaceae | Combretum molle | myrobolan family | * - | <0.5 | | 106;107 | * | <0.5 | | 106 |
| Anacardiaceae | Comocladia dodonea | | - | | | 108 | | | | |
| Rhamnaceae | Condalia hookeri | | * | | | 56 | * | | | 56 |
| Pteridophyta | Conigramme intermedia | | * | | | 109 | | | | |
| Hepaticae | Conocephalum spp. | | - | | | 109 | | | | |
| Compositae (Asteraceae) | Coreopsis gigantea | tree coreopsis | - | | | [2] | | | | |
| Cornaceae | Cornus alternifolia | pagoda dogwood | - | | | [2] | | | | |
| Cornaceae | Cornus florida | flowering dogwood | - | | | [2],10 | | | | |
| Cornaceae | Cornus nuttallii | Pacific dogwood | - | | | [2] | | | | |
| Cornaceae | Cornus sp. | dogwood | - | | | 30 | * | | | 30 |
| Cornaceae | Cornus spp. | | * | <0.1 | | 49,87 | * | 1.6±0.8 | | 49 |
| Rubiaceae | Corynanthe mayumbensis | | - | | | 107 | | | | |
| Betulaceae | Corylus avellana | hazel (European) | (-) * | | | [35];39 | (-) * | | | [35];39 |
| Betulaceae | Corylus californica | Californian hazel | - | | | [2] | | | | |
| Betulaceae | Corylus colurna | Turkish hazel | - | | | [2] | | | | |
| Rubiaceae | Corynanthe mayumbensis | | - | | | 107 | | | | |
| Anacardiaceae | Cotinus coggygria | smoke tree | - | | | [2] | | | | |
| Rosaceae | Cotoneaster pannosus | cotoneaster | * | | | 34 | * | | | 34 |
| Rosaceae | Cotoneaster parneyi | brightbead | - | | | [2] | | | | |
| Rosaceae | Crataegus monogyna | hawthorn (Europe) | - | | | [35],[40] | - * | 0.39 | | [35];[40] |
| Rosaceae | Crataegus punctata | hawthorn | - | | | [2] | | | | |
| Rosaceae | Crataegus spp. | hawthorn | * | <1 | | 65 | * | <0.2 | | 65 |
| Rhacoma? | Crossopetalum rhacoma | | - | | | 108 | | | | |
| Rubiaceae | Crossopteryx febrifuga | | - | | | 107 | | | | |
| Euphorbiaceae | Crotonogyne giorgii | | - | | | 107 | | | | |
| Taxodiaceae | Cryptomeria japonica | Japanese redwood | - | | | [2] | | | | |
| Taxodiaceae | Cunninghamia lanceolata | China fir | - | | | [2] | | | | |
| Sapindaceae | Cupania anacardioides | carrotwood | * | 49±19 | T sd | 41 | - | | | 41 |
| Cupressaceae | Cupressus abramsiana | Santa cruz cypress | - | | | [2] | | | | |
| Cupressaceae | Cupressus forbesii | Tecate Cypress | - | | | 58 | * | 1.7 | | 58 |
| Cupressaceae | Cupressus macrocarpa | Monterey cypress | - | | | [2] | | | | |
| Cupressaceae | Cupressus or Chamaecyparis? | 'Evergreen cypress' | (-) * | | | [2];38 | * | | | 38 |
| Cupressaceae | Cupressus sempervirens | Italian cypress | - | | | 28 | * | 0.1 | | 28,79 |
| Cupressaceae | Cupressus sp. | Cypress | - | | | [3] | * | | | [3] |
| Pteridophyta (Cyatheaceae) | Cyathea medullaris | sago fern | * | | | [2] | | | | |
| Cycadaceae | Cycas revolutus | cycad | - | | | [2],107 | | | | |
| Gramineae (Poaceae) | Cynodon dactylon | bermuda grass | - | | | [3] | * | 13 | | [3] |
| Cyperaceae | Cyperus alternifolius | umbrella sedge | - | | | [2] | | | | |
| Cyperaceae | Cyperus papyrus | papyrus | - | | | [2] | | | | |
| Cyperaceae | Cyperus sp. | nut sedge | - | | | [2] | | | | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-------------------------------|--------------------------|----------------------|-----------------------------|-----------|-----|-----------------|--------------------------------|-----------|-----|-----------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Cyperaceae | Cyperus spp. | | * | | | [2] | | | | |
| Solanaceae | Cyphomandra betacea | tree tomato | - | | | [2] | | | | |
| Cyrtillaceae | Cyrtilla spp. | red titi | * | 14 | | 37 | * | 0.1 | | 87 |
| Pteridophyta | Cyrtomium falcatum | | - | | | [2] | | | | |
| Leguminosae | Cytisus battandieri | Atlas broom | * | | | [2] | | | | |
| Leguminosae | Cytisus multiflorus | | * | | | 1 | | | | |
| Leguminosae | Cytisus praecox | Scots broom | * | | | [2] | | | | |
| Leguminosae | Cytisus scoparius | | * | 37±3 | sd | 105 | * | | | 105 |
| Leguminosae | Cytisus sp. | | * | 26.9-37±3 | sd | 61,62,75,81,105 | * | 0.002 | | 75,81,105 |
| Podocarpaceae | Dacrydium cupressinum | Rimu dacrydium | - | | | [2] | | | | |
| Burseraceae | Dacryodes edulis | | - | | | 107 | | | | |
| Gramineae (Poaceae) | Dactylis glomerata | cocksfoot grass | - | | | [35] | * | | | [35] |
| Leguminosae (Papilionaceae) | Dalbergia hostilis | | - | | | 107 | | | | |
| Leguminosae (Papilionaceae) | Dalbergia saxatilis | | - | | | 107 | | | | |
| Leguminosae (Papilionaceae) | Dalhousiea africana | | * | 0.024 | # | 107 | | | | |
| Leguminosae (Caesalpiniaceae) | Daniellia oliveri | | * | 0.118 | # | 107 | | | | |
| Thymelaeaceae | Daphne gnidium | | * | 15.77 | | [40] | * | 4.65 | | [40] |
| Solanaceae | Datura arborea | angel-trumpet | - | | | [2] | | | | |
| Umbelliferae (Apiaceae) | Daucus carota | carrot (Imperator) | - | | | 4,34 | * | 0.89-1.1 | | 4,34,67 |
| Leguminosae (Mimosaceae) | Delonix regia | | - | | | 107 | | | | |
| Papaveraceae | Dendromecon harfordii | island tree poppy | * | | | [2] | | | | |
| Papaveraceae | Dendromecon rigida | bush poppy | * | | | [2] | | | | |
| Papaveraceae | Dendromecon spp. | bush poppy | * | | | [2] | | | | |
| Gramineae (Poaceae) | Deschampsia flexuosa | wavy hair grass | - | | | [35] | - | | | [35] |
| Tiliaceae | Desplatsia chrysochlamys | | - | | | 107 | | | | |
| Leguminosae (Caesalpiniaceae) | Detarium microcarpum | | * | 0.542 | # | 107 | | | | |
| Leguminosae (Caesalpiniaceae) | Dialium pachyphyllum | | - | | | 107 | | | | |
| Pteridophyta (Cyatheaceae) | Dicksonia antarctica | tree fern | * | | | 1,[2],19 | | | | |
| Pteridophyta (Cyatheaceae) | Dicksonia squarrosa | tree fern | * | | | 1,[2] | | | | |
| Musci | Dicranum polysetum | | * | | | 109 | | | | |
| Musci | Dicranum undulatum | | - | | | 109 | | | | |
| Ebenaceae | Diospyros ebenaster | persimmon | - | | | [3] | * | | | [3] |
| Ebenaceae | Diospyros mespiliformis | | - | | | 107 | | | | |
| Ebenaceae | Diospyros sp. | | - | | | 107 | | | | |
| Ebenaceae | Diospyros spp. | | * | <0.1 | | 49 | * | <0.1 | | 49 |
| Ebenaceae | Diospyros suaveolens | | - | | | 107 | | | | |
| Ebenaceae | Diospyros virginiana | common persimmon | - | | | [2] | | | | |
| Ebenaceae | Diospyros whyteana | Australian persimmon | - | | | [2] | | | | |
| Compositae (Asteraceae) | Dittrichia viscosa | aromatic inula | - | | | 61,75,105 | * | 0.02±0.02 | sd | 61,75,105 |
| Leguminosae | Dorycnium pentaphyllum | | - | | | 105 | * | 0.1±0.1 | sd | 105 |
| Liliaceae | Dracaena draco | dragon draco | - | | | [2] | | | | |
| Winteraceae | Drimys winteri | winter's bark | - | | | [2] | | | | |
| Proteaceae | Dryandra calophylla | | * | | | [2] | | | | |
| Pteridophyta (Polypodiaceae) | Dryopteris filix-mas | fern | * | | | 38 | - | | | 38 |
| Tiliaceae | Duboscia macrocarpa | | - | | | 107 | | | | |
| Pontederiaceae | Eichhornia crassipes | | - | | | 107 | | | | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-----------------------------|-------------------------------------|-------------------------------------|-----------------------------|---------------|-----|----------------------------|--------------------------------|------------|-----|-----------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Elaeagnaceae | Elaeagnus angustifolia | Russian olive | - | | | [2] | | | | |
| Arecaceae | Elaeis guineensis | Palm oil tree | * | 172.9 (0.094) | # | 59 (107) | | | | |
| Proteaceae | Embothrium coccineum | Chilean firebush | * | | | [2] | | | | |
| Annonaceae | Enantia chlorantha | | - | | | 107 | | | | |
| Compositae | Encelia farinosa/Encelia spp. | encelia | - | | | 28 | * | 6±3 | | 28 |
| Meliaceae | Entandrophragma angolense | | - | | | 107 | | | | |
| Meliaceae | Entandrophragma cyclindricum | | - | | | 107 | | | | |
| Meliaceae | Entandrophragma utile | | - | | | 107 | | | | |
| Ephedraceae | Ephedra californica | | * | | | [2] | | | | |
| Ephedraceae | Ephedra chocuma | | * | | | [2] | | | | |
| Ephedraceae | Ephedra nevadensis | | * | | | [2] | | | | |
| Ephedraceae | Ephedra trifurca | | * | | | [2] | | | | |
| Ephedraceae | Ephedra viridis | | * | | | [2] | | | | |
| Onagraceae | Epilobium (Chamerion) angustifolium | rosebay willow herb | - | | | [35] | - | | | [35] |
| Ericaceae | Erica arborea | tree heath | * - | 6.4-20.3 | | [2],61,75,85,105; [40] | - * | <0.01-0.25 | | 75,105,[40],85 |
| Ericaceae | Erica arborea var. alpina | alpine heath | * | | | [2] | | | | |
| Ericaceae | Erica australis | | * | 0.27 | | [40] | * | 0.31 | | [40] |
| Ericaceae | Erica carnea | spring heath | * | | | [2] | | | | |
| Ericaceae | Erica ciliaris | | * | 0.02 | | [40] | * | 0.17 | | [40] |
| Ericaceae | Erica cinerea rose | | * | 2.06 | | [40] | - | | | [40] |
| Ericaceae | Erica cineria white | | * | 0.68 | | [40] | * | 2.19 | | [40] |
| Ericaceae | Erica multiflora | heath | * | 2±1 | sd | 61,75,105 | * | 0.03 | | 75,105 |
| Ericaceae | Erica umbellata | | * | 0.33 | | [40] | * | 0.19-2.52 | | [40] |
| Rosaceae | Eriobotrya japonica (adult) | loquat | - | | | [2],[40] | * | 0.19 | | [40] |
| Rosaceae | Eriobotrya japonica (young) | loquat | - | | | [40] | * | 2.52 | | [40] |
| Polygonaceae | Eriogonum fasciculatum | California buckwheat | * | | | 28 | * | | | 28 |
| Rubiaceae | Erithalis fruticosa | | - | | | 108 | | | | |
| Erythroxylaceae | Erythroxylum rotundifolium | | - | | | 108 | | | | |
| Leguminosae (Papilionaceae) | Erythrina sigmoidea | | - | | | 107 | | | | |
| Papaveraceae | Eschscholzia californica | California poppy | * | | | 1,[2],23 | | | | |
| Myrtaceae | Eucalyptus camaldulensis | red gum | * | | | [2] | | | | |
| Myrtaceae | Eucalyptus glaucescens | | * | | | [2] | | | | |
| Myrtaceae | Eucalyptus globulus | blue gum | * | 50.42 | | 1,102 | * | 8.12 | | 1,102 |
| Myrtaceae | Eucalyptus globulus (adult) | blue gum | * | (0.96)-18 | | 1,[2],25,[40],45,6 2,72 | * | 0.7-0.83 | | 1,25,36,[40],72 |
| Myrtaceae | Eucalyptus globulus (young) | blue gum | * | (12.69)-63.15 | | 1,[2],25,[40],45,6 2,72 | * | 5.2-7.4 | | 1,25,36,[40],72 |
| Myrtaceae | Eucalyptus macrocarpa | desert rose | * | | | [2] | | | | |
| Myrtaceae | Eucalyptus maculata | spotted gum | * | | | [2] | | | | |
| Myrtaceae | Eucalyptus nicholii | willow leaved peppermint eucalyptus | * | | | 41 | * | | | 41 |
| Myrtaceae | Eucalyptus niphophila | snow gum | * | | | [2] | | | | |
| Myrtaceae | Eucalyptus platypus | maalok | * | | | [2] | | | | |
| Myrtaceae | Eucalyptus polyanthemos | silver dollar gum | * | | | 41 | * | | | 41 |
| Myrtaceae | Eucalyptus pyriformis | pearpod mallee | * | | | [2] | | | | |
| Myrtaceae | Eucalyptus spp. | eucalyptus | * | 70±35 | | 49 | * | 3±1.5 | | 49 |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-------------------------|-------------------------|---------------------------------|-----------------------------|----------|------|-----------------------|--------------------------------|-----------|-----|----------------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Myrtaceae | Eucalyptus spp. (old) | eucalyptus | * | 40 | | 102 | | | | |
| Myrtaceae | Eucalyptus spp. (young) | eucalyptus | * | 28 | | 102 | | | | |
| Myrtaceae | Eucalyptus torquata | coral gum | * | | | [2] | | | | |
| Myrtaceae | Eucalyptus viminalis | ribbon gum | * | 7±1 | sd | 28 | - | | | 28 |
| Eucryphiaceae | Eucryphia billardieri | Tasmanian leatherwood | - | | | [2] | | | | |
| Myrtaceae | Eugenia malacensis | | * | | | 107 | | | | |
| Myrtaceae | Eugenia foetida | | * | 110 | %t40 | 108 | | | | |
| Myrtaceae | Eugenia grandis | eugenia | * | 12.1 | | 59 | | | | |
| Myrtaceae | Eugenia uniflora | Barbados cherry | * | | | [2] | | | | |
| Myrtaceae | Eugenia xerophytica | | * | 136 | %t40 | 108 | | | | |
| Asteraceae | Eupatorium odoratum | | - | | | 107 | | | | |
| Euphorbiaceae | Euphorbia pulcherrima | poinsettia | - | | | [2] | | | | |
| Euphorbiaceae | Euphorbia splendens | crown-of-thorns | - | | | [2] | | | | |
| Rubiaceae | Exostema caribaeum | | - | | | 108 | | | | |
| Leguminosae | Eysenhardtia taxana | | * | | | 56 | * | | | 56 |
| Rutaceae | Fagara heitzii | | * | | | 107 | | | | |
| Rutaceae | Fagara macrophylla | | - | | | 107 | | | | |
| Fagaceae | Fagus grandifolia | American beech | - | | | [2],10 | | | | |
| Fagaceae | Fagus sp. | beech | - | | | 30 | * | | | 30 |
| Fagaceae | Fagus spp. | beech | * | <0.1 | | 49 | * | 0.6±0.3 | | 49 |
| Fagaceae | Fagus sylvatica | European beech | - * | <0.01 | | [2],[3],[35],39;64,73 | - * | 0.24-0.47 | | [35];[3],39,70,71,73 |
| Myrtaceae | Feijoa sellowiana | pineapple guava | * | | | [2] | | | | |
| Gramineae (Poaceae) | Festuca rubra | red fescue | - | | | [35] | - | | | [35] |
| Moraceae | Ficus benamina | Benjamin fig | * | | | [2] | | | | |
| Moraceae | Ficus capensis | | * | | | 107 | | | | |
| Moraceae | Ficus carica | edible common fig | * | 2.92 | | [2],[40] | * | 0.85 | | [40] |
| Moraceae | Ficus costaricana | higo fig | * | | | [2] | | | | |
| Moraceae | Ficus elastica | Indian rubber plant | * | | | [2] | | | | |
| Moraceae | Ficus exasperata | | - | | | 107 | | | | |
| Moraceae | Ficus fistulosa | Fig | * | 27 | | 59 | * | 0.2 | | 59 |
| Moraceae | Ficus glumosa | | * | 0.29 | # | 107 | | | | |
| Moraceae | Ficus lyrata | fiddle-leaf fig | * | | | [2] | | | | |
| Moraceae | Ficus mucuso | | - | | | 107 | | | | |
| Moraceae | Ficus pumila | creeping fig | * | | | [2] | | | | |
| Moraceae | Ficus radicans | prostrate fig | - | | | [2] | | | | |
| Moraceae | Ficus religiosa | religious fig | * | | | [2] | | | | |
| Moraceae | Ficus sp. | | * | | | 107 | | | | |
| Rosaceae | Filipendula ulmaria | meadowsweet | - | | | [35] | - | | | [35] |
| Oleaceae | Forestiera segregata | | - | | | 108 | | | | |
| Fouquieriaceae | Fouquieria splendens | ocotillo | - | | | [2] | | | | |
| Rosaceae | Fragaria | strawberries | - | | | [3] | - | | | [3] |
| Rosaceae | Fragaria x ananassa | strawberry (Cambridge favorite) | - | | | [35] | - | | | [35] |
| Rhamnaceae | Frangula alnus Miller | | * | 10.17 | | [40] | * | 0.63 | | [40] |
| Compositae (Asteraceae) | Franseria deltoidea | bur sage | - | | | [2] | | | | |
| Compositae (Asteraceae) | Franseria dumosa | bur sage | - | | | [2] | | | | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-------------------------------|----------------------------|------------------------|-----------------------------|----------|-----|----------------|--------------------------------|-----------------|------|-------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Oleaceae | Fraxinus caroliniana | Carolina ash | - | | | [2],[3] | - | | | [3] |
| Oleaceae | Fraxinus excelsior | ash | - | | | [35],39 | - | | | [35],39 |
| Oleaceae | Fraxinus pennsylvanica | red ash | - | | | [2] | | | | |
| Oleaceae | Fraxinus sp. | | * | <0.1 | | 60 | | | | |
| Oleaceae | Fraxinus spp. | ash | * | <0.1 | | 49 | * | <0.1 | | 49 |
| Oleaceae | Fraxinus uhdei | evergreen ash | - * | | | [2];28 | * | | | 28 |
| Oleaceae | Fraxinus velutina | Arizona ash | - | | | [2] | | | | |
| Sterculiaceae | Fremontia californica | fremontia | - | | | [2] | | | | |
| Apocynaceae | Funtumia elastica | | * | | | 107 | | | | |
| Sapotaceae | Gambeya beguei | | - | | | 107 | | | | |
| Sapotaceae | Gambeya lacourtiana | | - | | | 107 | | | | |
| Clusiaceae | Garcinia kola | | * | | | 107 | | | | |
| Clusiaceae | Garcinia mangostana | | - | | | 107 | | | | |
| Clusiaceae | Garcinia sp. | | - | | | 107 | | | | |
| Rubiaceae | Gardenia ternifolia | | - | | | 107 | | | | |
| Garryaceae | Garrya elliptica | tree silk tassel | - | | | [2] | | | | |
| Leguminosae | Genista cinerea | ashy woodwaxen | * | | | [2] | | | | |
| Leguminosae | Genista germanica | German woodwaxen | * | | | [2] | | | | |
| Leguminosae | Genista scorpius (June) | | * | 7±2 | sd | 105 | - | | | 105 |
| Leguminosae | Genista scorpius (October) | | * | 11±4 | sd | 105 | - | | | 105 |
| Leguminosae (Caesalpiniaceae) | Gilbertiodendron dewevrei | | * | 0.668 | # | 107 | | | | |
| Ginkgoaceae | Ginkgo biloba | ginkgo | - * | <1 | | 41;65 | * | 3±6.8 | sd T | 41 |
| Leguminosae | Gleditsia texana | Texas honey locust | - | | | [2] | | | | |
| Leguminosae | Gleditsia triacanthos | common honey locust | * (-) | | | 1;[2] | | | | |
| Leguminosae (Papilionaceae) | Gliricidia sepium | | * | | | 107 | | | | |
| Leguminosae | Glycine max | soy bean | * | 0.02 | | 1 | - | | | 1 |
| Tilaceae | Glyphea brevis | | - | | | 107 | | | | |
| Taxodiaceae | Glyptostrobos lineatus | | - | | | [2] | | | | |
| Malvaceae | Gossypium hirsutum | cotton | - (*) | 0.04 | | 1,[2],34;[110] | * | (0.119) 0.4-0.8 | | 34,86,[110] |
| Malvaceae | Gossypium hirsutum | lint cotton (SJ2/Pima) | - | | | 4,34 | * | 0.64 | | 4,34,67 |
| Proteaceae | Grevillea robusta | silk oak | * | | | [2] | | | | |
| Proteaceae | Grevillea rosmarinifolia | rosemary grevillea | * | | | [2] | | | | |
| Tiliaceae | Grewia flavescens | grewia | * | <0.5 | | 106 | * | 0.5 | | 106 |
| Tiliaceae | Grewia mollis | | - | | | 107 | | | | |
| Zygophyllaceae | Guaiacum officinale | | - | | | 60,108 | | | | |
| Rubiaceae | Guetterda elliptica | | - | | | 60,108 | | | | |
| Rubiaceae | Guetterda krugii | | - | | | 60,108 | | | | |
| Leguminosae (Caesalpiniaceae) | Guibourtia demeusei | | * | | | 107 | | | | |
| Euphorbiaceae | Gymnanthes lucida | | - | | | 108 | | | | |
| Leguminosae | Gymnocladus dioica | Kentucky coffee-time | - | | | [2] | | | | |
| Proteaceae | Hakea oleifolia | oliveleaf hakea | * | | | [2] | | | | |
| Proteaceae | Hakea suaveolens | seet hakea | * | | | [2] | | | | |
| Hamamelidaceae | Hamamelis jelena | | * | | | 26 | | | | |
| Hamamelidaceae | Hamamelis virginiana | common witch hazel | * | <1 | | [2],65 | * | <0.2 | | 65 |
| Compositae (Asteraceae) | Haplopappus ericoides | burro-weed | - | | | [2] | | | | |
| Hypericaceae | Harungana madagascariensis | | * | | | 107 | | | | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-------------------------------|---------------------------|------------------------|-----------------------------|----------|-----|-------------|--------------------------------|-----------------|-----|-------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Marantaceae | Haumania danckelmaniana | f | * | | | 107 | | | | |
| Araliaceae | Hedera helix | English ivy | - | | | [2],[35] | * | | | [35] |
| Zingiberaceae | Hedychium spp. | ginger lily | - | | | [2] | | | | |
| Compositae (Asteraceae) | Helianthus annuus | sunflower | * | 0.05 | | 71 | * | 0.5 | ! | 71 |
| Compositae (Asteraceae) | Helichrysum stoechas | everlasting flower | - | | | 61,75,105 | * | 3.2±1.6-6.0±3.1 | sd | 75,105 |
| Rosaceae | Heteromeles arbutifolia | toyon | - | | | [2] | | | | |
| Euphorbiaceae | Hevea brasiliensis | Rubber Tree | * | 7.5 | | 59,107 | * | 0.5 | | 59 |
| Malvaceae | Hibiscus esculentus | okra | - | | | [3] | - | | | [3] |
| Malvaceae | Hibiscus spp. | | - | | | [2] | | | | |
| Simaroubaceae | Holacantha emoryi | crucifixion thorn | - | | | [2] | | | | |
| Gramineae (Poaceae) | Holcus lanatus | Yorkshire fog | - | | | [35] | - | | | [35] |
| Compositae (Asteraceae) | Holocarpa spp. | tarweed | - | | | 82 | * | 3.1 | T | 82 |
| Gramineae (Poaceae) | Hordeum vulgare | spring barley (Prisma) | - * | | | [35]; [110] | - * | | | [35]; [110] |
| Arecaceae | Howea forsteriana | sentry palm | * | | | [2] | | | | |
| Moraceae | Humulus lupulus | hops | - | | | [2] | | | | |
| Musci | Hylocomium splendens | | * | | | 109 | | | | |
| Euphorbiaceae | Hymenocardia acida | | - | | | 107 | | | | |
| Leguminosae (Caesalpiniaceae) | Hymenostegia floribunda | | - | | | 107 | | | | |
| Sapindaceae | Hypelate trifoliata | | - | | | 60,108 | | | | |
| Guttiferae | Hypericum calycinum | Aaronsbeard | * | | | [2] | | | | |
| Guttiferae | Hypericum kalmianum | kalm St. Johnswort | * | | | [2] | | | | |
| Guttiferae | Hypericum lanceolatum | | * | | | [2] | | | | |
| Guttiferae | Hypericum perforatum | common St. Johnswort | - | | | [2] | | | | |
| Guttiferae | Hypericum spathulatum | | * | | | [2] | | | | |
| Aquifoliaceae | Ilex cassine | dahoon holly | - | | | [3] | - | | | [3] |
| Aquifoliaceae | Ilex cornuta | Chinese holly | - | | | [2] | | | | |
| Aquifoliaceae | Ilex opaca | American holly | - | | | [2] | | | | |
| Aquifoliaceae | Ilex spp. | holly | * | <0.1 | | 49 | * | 0.2±0.1 | | 49 |
| Gramineae (Poaceae) | Imperata cylindrica | | - | | | 107 | | | | |
| Gramineae (Poaceae) | Imperata spp. | white cane grass | - | | | [2] | | | | |
| Leguminosae | Indigofera splendens | | - | | | [2] | | | | |
| Leguminosae | Inga spectabilis | | * | | | [2] | | | | |
| Convolvulaceae | Ipomoea mauritana | | * | | | 107 | | | | |
| Irvingiaceae | Irvingia gabonensis | | * | 0.058 | # | 107 | | | | |
| Irvingiaceae | Irvingia grandifolia | | * | | | 107 | | | | |
| Irvingiaceae | Irvingia smithii | | * | | | 107 | | | | |
| Irvingiaceae | Irvingia spp & Klainedoxa | | * | | | | | | | |
| Leguminosae (Caesalpiniaceae) | Isobertlinia doka | | * | 0.112 | # | 107 | | | | |
| Bignoniaceae | Jacaranda acutifolia | jacaranda | - | | | 41 | * | | | 41 |
| Bignoniaceae | Jacaranda mimosifolia | jacaranda | - | | | 28,57 | - | | | 28,57 |
| Myrsinaceae | Jacquinia berterii | | - | | | 108 | | | | |
| Oleaceae | Jasminum spp. | jasmine | - | | | [2] | | | | |
| Arecaceae | Jubaea chilensis | Chilean wine palm | * | | | [2] | | | | |
| Arecaceae | Jubaea spectabilis | syrup palm | * | | | [2] | | | | |
| Juglandaceae | Juglans nigra | black walnut | - | | | [2] | | | | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-------------------------|---------------------------------|------------------------------|-----------------------------|----------|------|-------------|--------------------------------|---------------------|-----|------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Juglandaceae | Juglans regia | English walnut (Hartley) | - | | | 4,34 | * | 1.6-1.76 | | 4,34,67,86 |
| Juglandaceae | Juglans regia (August) | English walnut | - | | | [40] | * | 9.43 | | [40] |
| Juglandaceae | Juglans regia (June) | English walnut | - | | | [40] | * | 0.99 | | [40] |
| Juglandaceae | Juglans sp. | | * | <0.1 | | 60 | | | | |
| Juglandaceae | Juglans spp. | | * | <0.1 | | 49 | * | 3±1.5 | | 49 |
| Juncaceae | Juncus effusus | common rush | - | | | [35] | - | | | [35] |
| Cupressaceae | Juniperus californica | California juniper | - | | | [2] | | | | |
| Cupressaceae | Juniperus chinensis | Chinese juniper | - | | | 28 | * | 0.7±0.7 | sd | 28 |
| Cupressaceae | Juniperus communis | common juniper | * | | | 38 | * | | | 38 |
| Cupressaceae | Juniperus oxicedrus | prickly juniper | * | 0.08 | | 61,75 | * | 0.96 | | 61,75 |
| Cupressaceae | Juniperus oxicedrus (June) | prickly juniper | - | | | 105 | * | 0.5±0.1- 2.3±0.9 | sd | 105 |
| Cupressaceae | Juniperus oxicedrus (May) | prickly juniper | - | | | 105 | * | 0.6±0.6- 1.0±0.3 | sd | 105 |
| Cupressaceae | Juniperus oxicedrus (October) | prickly juniper | - | | | 105 | * | 1.1±1.8- 2.0±1.5 | sd | 105 |
| Cupressaceae | Juniperus oxicedrus (September) | prickly juniper | - | | | 105 | * | 0.7±0.2 | sd | 105 |
| Cupressaceae | Juniperus phoenicea | Phoenician juniper | - | | | 61,75 | * | 0.77 | | 61,75 |
| Cupressaceae | Juniperus phoenicea (June) | Phoenician juniper | - | | | 105 | * | 0.2±0.1- 0.4±0.1 | sd | 105 |
| Cupressaceae | Juniperus phoenicea (May) | Phoenician juniper | - | | | 105 | * | 0.6±0.2- 0.7±0.2 | sd | 105 |
| Cupressaceae | Juniperus phoenicea (September) | Phoenician juniper | - | | | 105 | * | 0.6±0.1- 1.5±0.9 | sd | 105 |
| Cupressaceae | Juniperus scopulorum | Rocky Mountain juniper | - | | | [2] | | | | |
| Cupressaceae | Juniperus seravschanica? | Zeravschan juniper | * | | | 38 | * | | | 38 |
| Cupressaceae | Juniperus sp. | | * | 0.1 | | 60,61,62,81 | * | 0.65 | | 75,81 |
| Cupressaceae | Juniperus spp. | | * | <0.1 | | 49,87 | * | 0.1-0.6±0.3 | | 49,87 |
| Crassulaceae | Kalanchoe spp. | | - | | | [2] | | | | |
| Ericaceae | Kalmia latifolia | mountain laurel | * | <1 | | 65 | * | <0.2 | | 65 |
| Rhamnaceae | Karwinskia humboldtiana | Coyotillo | * | | | 56 | * | <0.1 | | 56 |
| Pinaceae | Keteleeria davidiana | David keteleeria | - | | | [2] | | | | |
| Bigoniaceae | Kigelia africana | | - | | | 107 | | | | |
| Irvingiaceae | Klainedoxa gabonensis | | * | 1.2 | # | 107 | | | | |
| Proteaceae | Knightsia excelsa | rewarewa | * | | | [2] | | | | |
| Capparaceae | Koerberlinia spp. | allthorn | - | | | [2] | | | | |
| Sapindaceae | Koelreuteria paniculata | China-tree | - | | | [2] | | | | |
| Rhamnaceae | Krugiodendron ferreum | | * | 45 | %t38 | 60,108 | | | | |
| Myrtaceae | Kunzea baxteri | mountain bush | * | | | [2] | | | | |
| Compositae (Asteraceae) | Lactuca sativa | lettuce (All the year round) | - | | | [35] | - | | | [35] |
| Compositae (Asteraceae) | Lactuca sativa | lettuce (Empire) | - | | | 4 | - | | | 4 |
| Compositae (Asteraceae) | Lactuca spp. | wild lettuce | - | | | [2] | | | | |
| Lythraceae | Lagerstroemia indica | common crape myrtle | - | | | [2],28,41 | - | | | 28,41 |
| Lythraceae | Lagerstroemia speciosa | | - | | | 107 | | | | |
| Rhizophoraceae | Laguncularia racemosa | white mangrove | * (-) | <0.1 | | 49,[3] | * (-) | <0.1 | | 49,[3] |
| Apocynaceae | Landolphia sp. | | - | | | 107 | | | | |

| | Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|--|-----------------------------|---------------------------------|-----------------------|-----------------------------|---------------------|-----|---------------------------------|--------------------------------|-----------|-----|----------|
| | | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| | Anacardiaceae | Lansea kerstingii | | - | | | 107 | | | | |
| | Verbenaceae | Lantana camara | common lantana | - | | | [2] | | | | |
| | Verbenaceae | Lantana involuca | | - | | | 108 | | | | |
| | Pinaceae | Larix decidua | European larch | * - | <0.1 | | 38;39 | * | 8.2 | | 38,39 |
| | Pinaceae | Larix laricina | American larch | - | | | [2] | | | | |
| | Zygophyllaceae | Larrea divaricata | creosote bush | - | | | [2] | | | | |
| | Zygophyllaceae | Larrea tridentata | creosote bush | - | | | [2] | | | | |
| | Leguminosae | Lathyrus latifolius | | * | | | 1 | | | | |
| | Lauraceae | Laurus nobilis | sweet bay | - | | | [2],[40] | * | 0.93 | | [40] |
| | Labiatae (Lamiaceae) | Lavandula luisieri | | - | | | [40] | * | 1.55 | | [40] |
| | Labiatae (Lamiaceae) | Lavandula sp. | lavender | * | 0.1 | | 62 | | | | |
| | Labiatae (Lamiaceae) | Lavandula stoechas (flowers) | lavender | - | | | 105 | * | 5.5±4.4 | sd | 105 |
| | Labiatae (Lamiaceae) | Lavandula stoechas (leaves) | lavender | - | | | 105 | * | 10.6±2.4 | sd | 105 |
| | Malvaceae | Lavatera assurgentiflora | malva rose | - | | | [2] | | | | |
| | Ericaceae | Ledum groenlandicum | Labrador tea | - | | | [2] | | | | |
| | Ericaceae | Ledum palustre | marsh tea | * | | | 38 | * | | | 38 |
| | Cactaceae | Leptocereus quadricostatus | | - | | | 108 | | | | |
| | Leguminosae (Papilionaceae) | Leptoderris hypargyrea | | * | | | 107 | | | | |
| | Myrtaceae | Leptospermum laevigatum | Australian tea tree | * | | | [2] | | | | |
| | Myrtaceae | Leptospermum scoparium | tea tree / rose gem | * | | | [2] | | | | |
| | Proteaceae | Leucadendron argenteum | silver tree | * | | | [2] | | | | |
| | Leguminosae | Leucaena retusa | | * | <0.1 | | 56 | * | <0.1 | | 56 |
| | Musci | Leucobryum glaucum | | * | | | 109 | | | | |
| | Proteaceae | Leucospermum reflexum | | * | | | [2] | | | | |
| | Cupressaceae | Librocedrus decurrens | incense-cedar | - | | | [2] | | | | |
| | Oleaceae | Ligustrum coriaceum | Japanese privet | - | | | [2] | | | | |
| | Oleaceae | Ligustrum lucidum | glossy privet | - * | | | 58;28 | - * | | | 58;28 |
| | Oleaceae | Ligustrum vulgare | common privet | - | | | [2] | | | | |
| | Arecaceae | Linospadix monostachyos | walking stick palm | - | | | [2] | | | | |
| | Hamamelidaceae | Liquidambar spp. | | * | 70±35-71 | | 49,87 | * | 1.3-3±1.5 | | 49,87 |
| | Hamamelidaceae | Liquidambar styraciflua | sweet gum | * | 15.72-86 (0.007) | T | 1,[2],[3],10,41,48 ,101,(65) | * | 2.54-3 | T | 1,[3],41 |
| | Hamamelidaceae | Liquidambar styraciflua (shade) | sweet gum | * | 55 | | 101 | | | | |
| | Hamamelidaceae | Liquidambar styraciflua (sun) | sweet gum | * | 86 | | 101 | | | | |
| | Magnoliaceae | Liriodendron chinense | tulip tree | - | | | [2] | | | | |
| | Magnoliaceae | Liriodendron spp. | | * | <0.1 | | 49,87 | * | 0.1-0.2 | | 49,87 |
| | Magnoliaceae | Liriodendron tulipifera | tulip tree | - * | 4.1 | | [2],10;84 | - | | | 10 |
| | Fagaceae | Lithocarpus densiflora | tanoak | - | | | 1,[2] | | | | |
| | Fagaceae | Lithocarpus spp. | tanoak | - | | | [2] | | | | |
| | Arecaceae | Livistona chinensis | Chinese fountain palm | * | | | [2] | | | | |
| | Gramineae (Poaceae) | Lolium perenne | rye grass | - | | | [35] | - | | | [35] |
| | Proteaceae | Lomatia fraxinifolia | ashleaf lomatia | * | | | [2] | | | | |
| | Caprifoliaceae | Lonicera canadensis | honeysuckle | - | | | [2] | | | | |
| | Ochnaceae | Lophira alata | | * | 0.008 | # | 107 | | | | |
| | Ochnaceae | Lophira lanceolata | | * | 0.03 | # | 107 | | | | |
| | Ochnaceae | Lophira spp. | | * | | | Pers Comm | | | | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|------------------------------|---------------------------------|-----------------------------|-----------------------------|----------|-----|---------------|--------------------------------|---------------|----------------|-----|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Leguminosae | Lotus corniculatus var arvensis | | * | | | 1 | | | | |
| Leguminosae | Lotus pedunculatus | | * | | | 1 | | | | |
| Leguminosae | Lupinus albicanlis | | * | | | 1 | | | | |
| Hepaticae | Lunularia cruciata | | - | | | 109 | | | | |
| Leguminosae | Lupinus spp. | perennial lupine | - | | | [2] | | | | |
| Solanaceae | Lycopersicon esculatum | tomato | - | | | [3] | * | | [3] | |
| Solanaceae | Lycopersicon lycopersicum | tomato (fresh market/sunny) | - | | | 4 | * | 28.2 | 4,34,67 | |
| Solanaceae | Lycopersicon lycopersicum | tomato (canning/6203) | - | | | 4 | * | 42.7 | 4,34,67 | |
| Solanaceae | Lycopersicon spp. | tomato | - | | | [2] | | | | |
| Rosaceae | Lyonothamnus floribundus | island ironwood | - | | | [2] | | | | |
| Leguminosae | Maackia chinensis | | * | | | [2] | | | | |
| Proteaceae | Macadamia ternifolia | Queensland nut | * | | | [2] | | | | |
| Euphorbiaceae | Macaranga barteri | | - | | | 107 | | | | |
| Euphorbiaceae | Macaranga triloba | Macaranga | * | 43.5 | | 59 | * | 0.7 | 59 | |
| Moraceae | Maclura pomifera | osage orange | - | | | [2] | | | | |
| Cycadaceae | Macrozamia spp. | cycad | - | | | [2] | | | | |
| Rhamnaceae | Maesopsis eminii | | * | | | 107 | | | | |
| Magnoliaceae | Magnolia grandiflora | magnolia | -* | <0.1 | | 28;60 | * | 6±3 | 28 | |
| Magnoliaceae | Magnolia soulangeana | magnolia | - | | | [2] | | | | |
| Magnoliaceae | Magnolia spp. | | * | <0.1 | | 49,87 | * | 0.5-3±1.5 | 49,87 | |
| Berberidaceae | Mahonia spp. | Oregon grape | * | 10.0-40 | | 65 | * | <0.2 | 65 | |
| Myrtaceae | Malaleuca leucadendron | paper bark | * | | | [2] | | | | |
| Euphorbiaceae | Mallotus oppositifolius | | - | | | 107 | | | | |
| Euphorbiaceae | Mallotus paniculatis | Mallotus | - | | | 59 | * | 0.8 | 59 | |
| Apocynaceae | Malouetia heudelotii | | - | | | 107 | | | | |
| Rosaceae | Malus domestica | apple | * | <1 | | 65 | * | 0.2-1 | 65 | |
| Rosaceae | Malus pumila | apple tree | - | | | [40] | * | 13.85 | [40] | |
| Malvaceae | Malvastrum arboreus | | * | | | 107 | | | | |
| Anacardiaceae | Mangifera indica | mango | * | 0.022 | # | [2],107 | | | | |
| Euphorbiaceae | Manihot ultissima | manioc | - | | | 107 | | | | |
| Sapotaceae | Manilkara fouilloiyana | | - | | | 107 | | | | |
| Sapotaceae | Manilkara zapota | | - | | | 107 | | | | |
| Euphorbiaceae | Manniophyton fulvum | | - | | | 107 | | | | |
| Sterculiaceae | Mansonia altissima | | - | | | 107 | | | | |
| Marantaceae | Marantochloa mannii | | - | | | 107 | | | | |
| Hepaticae | Marchantia polymorpha | | - | | | 109 | | | | |
| Bignoniaceae | Markhamia tomentosa | | - | | | 107 | | | | |
| Pteridophyta | Marsilea spp. | | - | | | [2] | | | | |
| Pteridophyta (Polypodiaceae) | Mattuccia struthiopteris | ostrich plume fern | * | | | [2] | | | | |
| Leguminosae | Medicago sativa | alfalfa | * - | 0.006 | | 1,[110];30,34 | * | (0.0024)-0.21 | 30,34,86,[110] | |
| Leguminosae | Medicago sativa "Pierce" | alfalfa | - | | | 4 | * | 0.21 | 4,34,67,86 | |
| Marantaceae | Megaphrynium macrostachyum | | - | | | 107 | | | | |
| Myrtaceae | Melaleuca linariifolia | bottlebush melaleuca | * | | | [2] | | | | |
| Myrtaceae | Melaleuca quinquenervia | cajeput tree | * | | | [2] | | | | |
| Meliaceae | Melia spp. | | * | <0.1 | | 49,87 | * | <0.1 | 49 | |
| Labiatae (Lamiaceae) | Mentha spp. | mint | - | | | [2] | | | | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-----------------------------|------------------------------|----------------------------|-----------------------------|------------|-----|-------------------------------|--------------------------------|---------------|-----|--------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Taxodiaceae | Metasequoia glyptostroboides | dawn redwood | - | | | [2] | | | | |
| Taxodiaceae | Metasequoia spp. | metasequoie | * | <1 | | 65 | | | | |
| Myrtaceae | Metrosideros excelsa | New Zealand Christmas tree | * | | | [2] | | | | |
| Myrtaceae | Metrosideros kermadecensis | iron tree | * | | | [2] | | | | |
| Leguminosae (Papilionaceae) | Millettia sanagana | | - | | | 107 | | | | |
| Leguminosae (Papilionaceae) | Millettia sp. | | * | | | 107 | | | | |
| Leguminosae | Mimosa pudica | sensitive plant | - | | | [2] | | | | |
| Gramineae (Poaceae) | Molinia caerulea | purple moor grass | * | | | [35] | - | | | [35] |
| Annonaceae | Monodora myristica | | - | | | 107 | | | | |
| Rubiaceae | Morinda lucida | | - | | | 107 | | | | |
| Moraceae | Morus alba | white mulberry | - | | | [2] | | | | |
| Moraceae | Morus cathayana | mulberry | - | | | [2] | | | | |
| Moraceae | Morus rubra | red mulberry | - | | | [3] | * | 1.6 | | [3] |
| Moraceae | Morus spp. | | * | <0.1 | | 49 | * | 0.2±0.1 | | 49 |
| Leguminosae | Mucuna deeringiana | velvet bean | * | | | 44,50 | | | | |
| Leguminosae | Mucuna pruriens var. utilis | velvet bean | * | 317 | | 47,83 | | | | |
| Leguminosae | Mucuna sp. | velvet bean | * | | | 23,51,52 | | | | |
| Musaceae | Musa ensete | Abyssinian banana | - | | | [2] | | | | |
| Musaceae | Musa sapientum | common banana | - | | | [2],107 | | | | |
| Musaceae | Musa spp. | banana | - | | | [2] | | | | |
| Moraceae | Musanga cecropioides | | - | | | 107 | | | | |
| Moraceae | Myrianthus arboreus | | * | 0.04 | # | 107 | | | | |
| Myricaceae | Myrica californica | Pacific bayberry | * | | | [2] | | | | |
| Myricaceae | Myrica cerifera | southern bayberry | * | | | [2] | | | | |
| Myricaceae | Myrica mexicana | Mexican wax-myrtle | * | | | [2] | | | | |
| Myricaceae | Myrica spp. | | * | <0.1 | | 87 | * | 2.4 | | 87 |
| Myricaceae | Myristica fragrans | nutmeg | - | | | [2] | | | | |
| Myricaceae | Myrsine africana | African boxwood | - | | | [2] | | | | |
| Myrtaceae | Myrtica cerifera | southern wax myrtle | - | | | [3] | * | 1.1 | | [3] |
| Myrtaceae | Myrtus communis | true/common myrtle | * | 25.2-136.7 | | [2],28,61,62,75,8 1,85,105 | - * | <0.01-0.3±0.3 | sd | 28;75,85,105 |
| Myrtaceae | Myrtus pedunculata | myrtle | * | | | [2] | | | | |
| Myrtaceae | Myrtus spp. | myrtle | * | | | [2] | | | | |
| Berberidaceae | Nandina domestica | heavenly/sacred bamboo | * | 20-25.1 | | [2],28 | - | | | 28 |
| Berberidaceae | Nandina spp. | dwarf golden bamboo | * | | | [2] | | | | |
| Gramineae (Poaceae) | Nardus stricta | mat grass | - | | | [35] | - | | | [35] |
| Rubiaceae | Nauclea diderrichii | | - | | | 107 | | | | |
| Rubiaceae | Nauclea latifolia | | * | | | 107 | | | | |
| Musci | Neckera pennata | | * | | | 109 | | | | |
| Pteridophyta | Nephrolepis exaltata | | - | | | [2],109 | | | | |
| Apocynaceae | Nerium oleander | oleander | - * | | | [3],105;28 | (-) * | | | [3];28,105 |
| Bignoniaceae | Newbouldia laevis | | - | | | 107 | | | | |
| Solanaceae | Nicotiana spp. | tobacco | - | | | [2],30,[110] | * | (0.12) | | [3],30,[110] |
| Solanaceae | Nicotiana tabacum | tobacco | - | | | 1 | | | | |
| Liliaceae | Nolina bigelovii | bigelow nolina | - | | | [2] | | | | |
| Fagaceae | Nothofagus antarctica | Antarctic falsebeech | - | | | [2] | | | | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|------------------------------|-----------------------------|-----------------------|-----------------------------|----------|-----|---------------------------|--------------------------------|-----------|-----|--------------------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Fagaceae | Nothofagus cliffortoides | mountain falsebeech | - | | | [2] | | | | |
| Fagaceae | Nothofagus dombeyi | southern falsebeech | - | | | [2] | | | | |
| Fagaceae | Nothofagus procera | falsebeech | - | | | [2] | | | | |
| Nyssaceae | Nyssa spp. | | * | 13-14±7 | | 49,87 | * | 0.6±0.3 | | 49,87 |
| Nyssaceae | Nyssa sylvatica | tupelo / black gum | - | | | [2],10,30 | * | | | 30 |
| Ochnaceae | Ochna pulchra | ochnea | * | 32 | | 106 | * | <0.5 | | 106 |
| Oleaceae | Olea europaea | olive | - | | | [2],28,34,[40],86, 105 | * | <0.1-0.56 | | 28,34,[40],67,86 ,105 |
| Oleaceae | Olea europaea | olive (Manzanillo) | - | | | 4,34 | * | 0.05 | | 4,34,67 |
| Oleaceae | Olea sp. | olive | * | <0.1 | | 79 | | | | |
| Oleaceae | Olea spp. | olive | - | | | [2] | | | | |
| Compositae (Asteraceae) | Olearia phlogopappa | | - | | | [2] | | | | |
| Leguminosae | Olneya spp. | ironwood | * | | | [2] | | | | |
| Leguminosae | Olneya tesota | desert ironwood | * | | | [2] | | | | |
| Cactaceae | Opuntia basilaris var. | beavertail cactus | - | | | [2] | | | | |
| Cactaceae | Opuntia lindheimeri | | * | | | 56 | * | | | 56 |
| Cactaceae | Opuntia microdasys | prickly pear | - | | | [2] | | | | |
| Gramineae (Poaceae) | Oryza sativa | rice (M202) | - (*) | 0.097 | | 4,34:[110] | - (*) | 0.243 | | 4,34:[110] |
| Compositae (Asteraceae) | Osteospermum fruticosum | African daisy | - | | | 28 | * | 0.035 | # | 28 |
| Betulaceae | Ostrya carpinifolia | European hop-hornbeam | - | | | [2] | | | | |
| Betulaceae | Ostrya virginiana | American hop-hornbeam | - | | | [2] | | | | |
| Ericaceae | Oxydendrum arboreum | sourwood | - | | | [2] | | | | |
| Ericaceae | Oxydendrum spp. | | * | <0.1 | | 49 | * | 0.6±0.3 | | 49 |
| Poaceae | Oxythenantera abyssinica | | - | | | 107 | | | | |
| Leguminosae (Caesalpinaceae) | Pachyelasma tessmannii | | - | | | 107 | | | | |
| Bombacaceae | Pachyra insignis | | * | | | 107 | | | | |
| Buxaceae | Pachysandra terminalis | | - | | | [2] | | | | |
| Combretaceae | Palisota ambigua | | - | | | 107 | | | | |
| Sapindaceae | Pancovia laurentii | | * | 0.03 | # | 107 | | | | |
| Pandaceae | Panda oleosa | | - | | | 107 | | | | |
| Chrysobalanaceae | Parinari cunatellifolia | | * | 0.362 | # | 107 | | | | |
| Moraceae | Parinari excelsa | | - | | | 107 | | | | |
| Leguminosae (Mimosaceae) | Parkia biglobosa | | - | | | 107 | | | | |
| Hamamelidaceae | Parrotia persica | Persian parrotia | * | | | [2] | | | | |
| Hamamelidaceae | Parrotiopsis jacquemontiana | | * | | | [2] | | | | |
| Gramineae (Poaceae) | Paspalum notatum | bahia grass | - | | | [3] | - | | | [3] |
| Sapindaceae | Paullinia pinnata | | - | | | 107 | | | | |
| Pteridophyta | Pellaea rotundifolia | | * | | | 109 | | | | |
| Leguminosae (Mimosaceae) | Pentaclethra macrophylla | | - | | | 107 | | | | |
| Lauraceae | Persea americana | American avocado | - | | | [2],107 | * | | | 28 |
| Lauraceae | Persea borbonia | red bay | - | | | [3] | * | 1.1 | | [3] |
| Lauraceae | Persea spp. | | * | <0.1 | | 49 | * | 0.6±0.3 | | 49 |
| Lecythidaceae | Petersianthus macrocarpus | | - | | | 107 | | | | |
| Umbelliferae (Apiaceae) | Petroselinum spp. | parsley | - | | | [2] | | | | |
| Leguminosae | Phaseolus vulgaris | bean | * - | | | 1;34 | - | | | 34 |
| Leguminosae | Phaseolus vulgaris | French bean (Prince) | - | | | [35] | - | | | [35] |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|------------------------------|----------------------------------|-------------------------|-----------------------------|----------|------|-------------------|--------------------------------|---------------------|---------------------------------------|-----|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Leguminosae | Phaseolus vulgaris | bean, fresh (Top Crop) | - | | | 4,67 | - | | 4,34,67 | |
| Oleaceae | Phillyrea angustifolia | narrow leaved Phillyrea | - | | | 61,75 | * | 0.47 | 61,75 | |
| Oleaceae | Phillyrea angustifolia (May) | narrow leaved Phillyrea | - | | | 105 | * | 0.4±0.3- 0.7±0.6 | sd 105 | |
| Oleaceae | Phillyrea angustifolia (October) | narrow leaved Phillyrea | - | | | 105 | * | 0.2±0.3 | sd 105 | |
| Musci | Philonotis fontanum | | * | | | 109 | | | | |
| Arecaceae | Phoenix dactylifera | date palm | * | 15±1 | | [2],28 | - | | 28 | |
| Arecaceae | Phoenix reclinata | | * | 0.09 | # | 107 | | | | |
| Loranthaceae | Phragmanthera sp. | | - | | | 107 | | | | |
| Gramineae (Poaceae) | Phragmites australis | common reed | - | | | [35] | - | | [35] | |
| Gramineae (Poaceae) | Phragmites mauritianum | reed | * | 35 | | 106 | * | 0.6 | 106 | |
| Gramineae (Poaceae) | Phyllostachys aurea | golden bamboo | - | | | [2] | | | | |
| Gramineae (Poaceae) | Phyllostachys dulcis | | - | | | [2] | | | | |
| Gramineae (Poaceae) | Phyllostachys viridis | | - | | | [2] | | | | |
| Phytolaccaceae | Phytolacca dioica | ombu tree | - | | | [2] | | | | |
| Pinaceae | Picea abies | Norway spruce | (-) * | 0.34-1.8 | | [2],[35];39,63,70 | * | 0.2-7.8 | ~ 11,12,21,29,[35],37,39,63,70,74,103 | |
| Pinaceae | Picea alcoquiana | | * | | | [2] | | | | |
| Pinaceae | Picea asperata | dragon spruce | * | | | [2] | | | | |
| Pinaceae | Picea aurantiaca | yellowtwig spruce | * | | | [2] | | | | |
| Pinaceae | Picea engelmannii | Engelman spruce | * | 9.5-22 | | 1,[2],31,70 | * | 3.0-4.3 | 1,31 | |
| Pinaceae | Picea glauca | white spruce | * | 7.0-15 | | [2],70 | * | 1.4 | 70 | |
| Pinaceae | Picea koyamai | koyama spruce | * | | | [2] | | | | |
| Pinaceae | Picea likiangensis var. | Balfour spruce | * | | | [2] | | | | |
| Pinaceae | Picea mariana | black spruce | * | 15 | | [2],70 | * | | 70 | |
| Pinaceae | Picea meyeri | | - | | | [2] | | | | |
| Pinaceae | Picea montigena | candelabra spruce | * | | | [2] | | | | |
| Pinaceae | Picea morrisonicola | | * | | | [2] | | | | |
| Pinaceae | Picea omorika | Serbian spruce | * | 10 | | [2] | | | 79 | |
| Pinaceae | Picea orientalis | Oriental spruce | * | | | [2] | | | | |
| Pinaceae | Picea pungens | Colorado blue spruce | * | 1.0-12.0 | | [2] | * | 1.05 | 70,79 | |
| Pinaceae | Picea rubens | red spruce | * | 1.1 | | [2],27,70 | * | | 70 | |
| Pinaceae | Picea sitchensis | Sitka spruce | * | 1.8-4.75 | | 1,[2],31,[35],62 | * | 0.25-6.46 | 1,31,[35],36,62,68 | |
| Pinaceae | Picea smithiana | Himalayan spruce | * | | | [2] | | | | |
| Pinaceae | Picea spp. | spruce | * | 14±7 | | 49 | * | 3±1.5 | 49 | |
| Apocynaceae | Picralima nitida | | - | | | 107 | | | | |
| Leguminosae | Pictetia aculeata | | * | 135 | %t39 | 108 | | | | |
| Leguminosae (Caesalpinaceae) | Piliostigma refuscens | | - | | | 107 | | | | |
| Leguminosae (Caesalpinaceae) | Piliostigma thonningii | | - | | | 107 | | | | |
| Pinaceae | Pinus aristata | bristlecone pine | - | | | [2] | | | | |
| Pinaceae | Pinus canariensis | Canary island pine | - | | | 28,41 | * | (1.7±1.2)-2.6 | T sd 28,41 | |
| Pinaceae | Pinus clausa | sand pine | - | | | [3] | * | 11.5 | [3] | |
| Pinaceae | Pinus contorta | shore / beach pine | - | | | 1 | | | | |
| Pinaceae | Pinus contorta v. latifolia | lodgepole pine | - | | | [35] | - | | [35] | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|--------------------------|-----------------------------|------------------------------|-----------------------------|----------|------|-------------------------------------|--------------------------------|---------------------|--------|---------------------------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Pinaceae | Pinus densiflora | red pine | | | | | * | 0.15 | | 12,22,104 |
| Pinaceae | Pinus echinata | shortleaf pine | - | | | [2] | | | | |
| Pinaceae | Pinus edulis | pinyon pine | - | | | [2] | | | | |
| Pinaceae | Pinus elliotii | slash pine | - | | | 1,[3],6 | * | 3.2-6.9 | | 1,[3],6,16 |
| Pinaceae | Pinus halepensis | Aleppo pine | - * | | | 28,41,105;103 | * | <0.1-2.7±2.3 | sd T | 28,41,103,105 |
| Pinaceae | Pinus jeffreyi | Jeffrey pine | - | | | [2] | | | | |
| Pinaceae | Pinus monticola | | - | | | 1 | | | | |
| Pinaceae | Pinus mugo var. mughus | Swiss mountain pine | - | | | [2] | | | | |
| Pinaceae | Pinus nigra | Austrian black pine | - | | | [2] | | | | |
| Pinaceae | Pinus nigra v. maritima | Corsican pine | - | | | [35] | * | | | [35] |
| Pinaceae | Pinus palustris | longleaf pine | - | | | [3] | * | 5.9 | | [3] |
| Pinaceae | Pinus pinaster | maritime pine | - | | | [40] | * | <0.1-12.79 | | 12,[40],55,103 |
| Pinaceae | Pinus pinea | umberella/Italian stone pine | - * | <0.01 | | [40],41,75,78,98,99,105;28,61,78,98 | * | (0.42±0.19)-15 | ~ T sd | 28,[40],41,61,75,78,98,99,105 |
| Pinaceae | Pinus pinea (adult, spring) | umberella/Italian stone pine | - | | | [40] | * | 2.4 | | [40] |
| Pinaceae | Pinus pinea (adult, summer) | umberella/Italian stone pine | - | | | [40] | * | 0.9 | | [40] |
| Pinaceae | Pinus pinea (August) | umberella/Italian stone pine | - | | | 78 | * | 7-15 | | 78 |
| Pinaceae | Pinus pinea (June) | umberella/Italian stone pine | * - | <0.01 | | 78,98;98 | * | 2.2-7.4 | | 78,98 |
| Pinaceae | Pinus pinea (May) | umberella/Italian stone pine | - * | <0.01 | | 99;78,98 | * | 1.3-3.4 | | 78,98,99 |
| Pinaceae | Pinus pinea (October) | umberella/Italian stone pine | * | <0.01 | | 78 | * | 2.8 | | 78 |
| Pinaceae | Pinus pinea (young) | umberella/Italian stone pine | - | | | [40] | * | 1.66 | | [40] |
| Pinaceae | Pinus ponderosa | ponderosa pine | - | | | [2] | * | 2-2.5 | | 29,53 |
| Pinaceae | Pinus ponderosa (June) | ponderosa pine | | | | | * | 2.5 | | 53 |
| Pinaceae | Pinus ponderosa (September) | ponderosa pine | | | | | * | 2 | | 53 |
| Pinaceae | Pinus radiata | Monterey pine | - | | | 28,[40],41 | * | 0.45-(0.9±0.18) | T sd | 13,28,[40],41 |
| Pinaceae | Pinus resinosa ? (see **) | Southern red pine | - | | | [3] | * | 0.07 | | [3] |
| Pinaceae | Pinus rigida | pitch pine | - | | | | | | | |
| Pinaceae | Pinus sabiniana | digger pine | - | | | 82 | * | 0.64 | T | 82 |
| Pinaceae | Pinus sibirica | Siberian pine | * | | | 38 | * | | | 38 |
| Pinaceae | Pinus sp. | | * | <0.1 | | 60 | | | | |
| Pinaceae | Pinus spp. | | * | <0.1 | | 49,87 | * | 2-3±1.5 | | 49,87 |
| Pinaceae | Pinus strobus | white pine | - | | | [2] | | | | |
| Pinaceae | Pinus sylvestris | Scots pine | - (*) | | | [2],[35],39,[40];38 | * | 0.8-12.1 | | 11,12,29,[35],37,38,39,[40],103 |
| Pinaceae | Pinus taeda | loblolly pine | | | | | * | 5.1 | | [2],7,10,29,84 |
| Leguminosae (Mimosaceae) | Piptadeniastrum africanum | | - | | | 107 | | | | |
| Nyctaginaceae | Pisonia albida | | * | 98 | %t41 | 108 | | | | |
| Anacardiaceae | Pistacia chinensis | | - | | | [2] | | | | |
| Anacardiaceae | Pistacia lentiscus | pistachio | * - | <0.01 | | 61,85;105 | * | 0.4-0.6±0.2 | sd | 85,105 |
| Anacardiaceae | Pistacia terebinthus | pistachio | - | | | 105 | * | 0.03±0.01-0.05±0.04 | sd | 105 |
| Anacardiaceae | Pistacia vera | kerman pistachio | - | | | 4,34 | * | 8.37 | | 4,34,67,86 |
| Leguminosae | Pisum sativum | pea | * | | | 1 | | | | |
| Leguminosae | Pithecellobium spp. | apes earring | - | | | [2] | | | | |
| Pittosporaceae | Pittosporum phillyraeoides | willow pittosporum | - | | | [2] | | | | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|--------------------------|-------------------------------------|-----------------------------|-----------------------------|-------------|-----|----------------|--------------------------------|-----------|-----|----------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Pittosporaceae | Pittosporum tobira | Chinese pittosporum | - * | | | [2];28 | * | | | 28 |
| Pittosporaceae | Pittosporum undulatum | orange berry pittosporum | * | | | 28 | * | | | 28 |
| Platanaceae | Platanus acerifolia | London planetree | * | | | [2] | | | | |
| Platanaceae | Platanus hybrida | | * | 10.68 | | [40] | * | 0.08 | | [40] |
| Platanaceae | Platanus occidentalis | American sycamore | * | 24.29-27.6 | | 1,[2],10 | - | | | 1 |
| Platanaceae | Platanus orientalis | Asian planetree | * | | | [2] | | | | |
| Platanaceae | Platanus racemosa | California/western sycamore | * | 11±3 | sd | 28 | - | | | 28 |
| Platanaceae | Platanus sp. | plane | * | | | 30 | | | | |
| Platanaceae | Platanus spp. | | * | 35±17.5 | | 49 | * | <0.1 | | 49 |
| Pteridophyta | Platyserium bifurcatum | | - | | | 109 | | | | |
| Gramineae (Poaceae) | Pleioblastus distichus | fern bamboo | * | | | [2] | | | | |
| Gramineae (Poaceae) | Pleioblastus viridi-striata | cane bamboo | - | | | [2] | | | | |
| Musci | Pleurozium schreberi | | * | | | 109 | | | | |
| Apocynaceae | Plumeria alba | | - | | | 108 | | | | |
| Apocynaceae | Plumeria rubra | frangipanni | - | | | [2],107 | | | | |
| Podocarpaceae | Podocarpus gracilior | fern pine | * | | | 28 | * | | | 28 |
| Podocarpaceae | Podocarpus macrophylla | | - | | | [2] | | | | |
| Leguminosae | Poinciana regia | flamboyant tree | - | | | [2] | | | | |
| Leguminosae | Poincinia spp. | flamboyant tree | - | | | [2] | | | | |
| Annonaceae | Polyalthia suaveolens | | - | | | 107 | | | | |
| Polygonaceae | Polygonum schalinense | Japanese knotweed | * | 0.0047 | | 111 | | | | |
| Pteridophyta | Polypodium aureum | | - | | | [2],109 | | | | |
| Pteridophyta | Polypodium lucidum | | * | | | 109 | | | | |
| Pteridophyta | Polypodium polycarpon | | - | | | [2] | | | | |
| Pteridophyta | Polypodium punctatum | | * | | | 109 | | | | |
| Musci | Polytrichum commune | deciduous/hair moss | * | | | 38 | * | | | 38 |
| Musci | Polytrichum juniperinum | | * | | | 109 | | | | |
| Musci | Polytrichum piliferum | | * | | | 109 | | | | |
| Salicaceae | Populus alba | white poplar | * | 19.94 | | [2],[40] | * | 1.23 | | [40] |
| Salicaceae | Populus balsamifera | balsam poplar | * | | | [2],38 | * | | | 38 |
| Salicaceae | Populus balsamifera ssp trichocarpa | black cottonwood | * | 100±46 | | 111 | * | 0.30±0.13 | | 111 |
| Salicaceae | Populus deltoides | eastern poplar/cottonwood | * | 32.68-37 | | 1,[2],18 | - | | | 1 |
| Salicaceae | Populus fremontii | Fremont cottonwood | * | | | [2],46 | | | | |
| Salicaceae | Populus grandidentata | bigtooth aspen | * | | | [2] | | | | |
| Salicaceae | Populus koreana | | * | | | [2] | | | | |
| Salicaceae | Populus maximowiczii | | * | | | [2] | | | | |
| Salicaceae | Populus nigra | black poplar | * | 29.23-76±25 | sd | [2],[40],105 | * - | | | [40];105 |
| Salicaceae | Populus sp. | | * | 70 | | 60,65 | | | | |
| Salicaceae | Populus spp. | | * | 70±35 | | 49 | * | <0.1 | | 49 |
| Salicaceae | Populus szechuanica | Szechuan poplar | * | | | [2] | | | | |
| Salicaceae | Populus tremula | | * | 51 | | 88 | * | 4.6 | | 88 |
| Salicaceae | Populus tremuloides | quaking aspen | * | 44.35-86 | | 1,[2],14,38,43 | - | | | 1,14,38 |
| Salicaceae | Populus trichocarpa | western balsam poplar | * | | | [2] | | | | |
| Rubiaceae | Porterandia cladantha | | - | | | 107 | | | | |
| Leguminosae (Mimosaceae) | Prosopis africana | | - | | | 107 | | | | |
| Leguminosae (Mimosaceae) | Prosopis pubescens | screw-bean mesquite | - | | | [2] | | | | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-----------------------------|-------------------------------------|-------------------------|-----------------------------|-----------|-----|---------------|--------------------------------|-----------|-----|-----------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Labiatae (Lamiaceae) | Prostanthera denticulata | mintbush | - | | | [2] | | | | |
| Labiatae (Lamiaceae) | Prostanthera rotundifolia | mintbush | - | | | [2] | | | | |
| Proteaceae | Protea obtusifolia | bluntleaf protea | * | | | [2] | | | | |
| Rosaceae | Prunus africana | | - | | | 107 | | | | |
| Rosaceae | Prunus armeniaca | apricot (Blenheim) | - | | | 4,34,67 | * | <0.1 | | 4,34,67,86 |
| Rosaceae | Prunus armeniaca | apricot (Royal) | - | | | 4 | * | | | 4 |
| Rosaceae | Prunus avium | cherry, sweet (Bing) | - | | | 4,34,67 | * | <0.1-0.4 | | 4,34,67,86 |
| Rosaceae | Prunus domestica | plum (Santa Rosa) | - | | | 4,34 | - * | <0.03 | | 4;34,67 |
| Rosaceae | Prunus domestica | French prune (Mariana) | - | | | 4 | - | | | 4 |
| Rosaceae | Prunus dulcis v. dulcis | almond (Nonpareil) | - | | | 4,34,67 | - * | <0.05 | | 4;34,67 |
| Rosaceae | Prunus laurocerasus | cherry laurel | - | | | [2] | | | | |
| Rosaceae | Prunus pensylvanica | pin cherry | - | | | [2] | | | | |
| Rosaceae | Prunus persica | peach | - | | | [40] | * | 0.3-1.57 | | [40],67,86 |
| Rosaceae | Prunus persica | nectarine (Armking)) | - | | | 34 | * | <0.06 | | 34,67 |
| Rosaceae | Prunus persica | peach (Halford) | - | | | 4,34 | * | 0.25 | | 4,34,67 |
| Rosaceae | Prunus persica v. nectarina | nectarine (Silver lode) | - | | | 4,34 | - * | <0.01 | | 4;34 |
| Rosaceae | Prunus serotina | black cherry | - | | | [2],10,30 | * | | | 30 |
| Rosaceae | Prunus sp. | | * | <0.1 | | 67 | | | | |
| Rosaceae | Prunus spinosa | | - | | | 39 | * | | | 39 |
| Rosaceae | Prunus spp. | | * | <0.1 | | 49,87 | * | <0.1 | | 49 |
| Rosaceae | Prunus virginiana | common chokecherry | - | | | [2] | | | | |
| Anacardiaceae | Pseudospondias microcarpa | | * | | | 107 | | | | |
| Pinaceae | Pseudotsuga macrocarpa | bigcone douglas fir | - | | | 58 | * | 1.1 | | 58 |
| Pinaceae | Pseudotsuga menziesii | douglas fir | - | | | [2],[35],[40] | * | 0.36 | | 10,29,[35],[40] |
| Pinaceae | Pseudotsuga menziesii ssp menziessi | coastal douglas fir | * | 1.52±1.63 | | 111 | * | 2.29±1.44 | | 111 |
| Pinaceae | Pseudotsuga spp. | | * | <0.1 | | 49 | * | 1.6±0.8 | | 49 |
| Pteridophyta | Pteridium aquilinum | bracken | * | 0.71-1.71 | | [35],[40] | - * | | | [35],[40] |
| Pteridophyta | Pteris cretica | | - | | | 109 | | | | |
| Pteridophyta | Pteris tremula | | - | | | [2] | | | | |
| Leguminosae (Papilionaceae) | Pterocarpus luscens | | * | 0.392 | # | 107 | | | | |
| Leguminosae (Papilionaceae) | Pterocarpus soyauxii | | * | 0.056 | # | 107 | | | | |
| Juglandaceae | Pterocarya fraxinifolia | Chinese wingnut | - | | | [2] | | | | |
| Sterculiaceae | Pterygota bequaertii | | - | | | 107 | | | | |
| Musci | Ptilium crista-castrensis | | * | | | 109 | | | | |
| Leguminosae (Papilionaceae) | Pueraria javanica | | * | | | 107 | | | | |
| Leguminosae (Papilionaceae) | Pueraria lobata | kudzu bean | * | 8.45-(40) | | 1,44,65 | - * | 0.2-1 | | 1;65 |
| Leguminosae (Papilionaceae) | Pueraria spp. | | * | 97 | | 87 | | | | |
| Punicaceae | Punica granatum | pomegranate | - | | | [2] | | | | |
| Rosaceae | Purshia tridentata | antelope brush | - | | | [2] | | | | |
| Myristicaceae | Pycnanthus angolensis | | - | | | 107 | | | | |
| Pteridophyta | Pyrosia varia | | - | | | 109 | | | | |
| Rosaceae | Pyrus communis | pear | - | | | [40] | * | 0.6 | | [40] |
| Rosaceae | Pyrus coronaria | wild sweet crab apple | - | | | [2] | | | | |
| Rosaceae | Pyrus kawakamii | evergreen pear | * | | | 28 | * | | | 28 |
| Rosaceae | Pyrus malus | See Malus pumila | | | | | | | | |
| Fagaceae | Quercus agrifolia | Californian live oak | * | 35-49±37 | | [2],28,89 | - | | | 28 |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|----------|------------------------------|-----------------------------|-----------------------------|--------------|-----|------------------------------|--------------------------------|--------------|-----|---------------------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Fagaceae | Quercus alba | American white oak | * | 7.8-120 | | [2],10,54,84,90,91,92,93 | * | | | 84 |
| Fagaceae | Quercus bicolor | swamp white oak | * | | | [2] | | | | |
| Fagaceae | Quercus borealis (rubra) | red oak | * | 14.8-61 | | 1,[2],10,42,43,50,84,94,100 | - * | 1.8 | | 1;84 |
| Fagaceae | Quercus bushii | bush oak | * | | | [2] | | | | |
| Fagaceae | Quercus calliprinos | Palestina oak | * | 0.1 | | 95 | * | 3.1 | | 95 |
| Fagaceae | Quercus canariensis | canary oak | * | 11.3 | | 95 | * | 1 | | 95 |
| Fagaceae | Quercus cerris | Turkey oak | * - | <0.2 | | 61,95,97; 75,105 | * - | 1.0±1.8-3.1 | sd | 75,105; 95,97 |
| Fagaceae | Quercus chrysolepis | canyon live oak | * | 11.7 | | [2],95 | * | 0.1 | | 95 |
| Fagaceae | Quercus coccifera | kermes oak/grain tree | * - | 0.1-25.31 | | [40],69,96;105 | * | 1.99-21.1 | ~ | [40],69,96,105 |
| Fagaceae | Quercus coccinea | scarlet oak | * | 20.1-130 | | [2],10,84,92 | * | 3.2 | | 84 |
| Fagaceae | Quercus douglasii | blue oak | * | 8.4 | T | [2],82 | - | | | 82 |
| Fagaceae | Quercus dumosa | California scrub oak | * | 5-54.4 | | [2],28,58 | - | | | 28,58 |
| Fagaceae | Quercus durata | leather oak | * | | | [2] | | | | |
| Fagaceae | Quercus engelmannii | Engelmann oak | * | | | [2] | | | | |
| Fagaceae | Quercus faginea | Portuguese oak | * | 111 | | 95 | * | 0.5 | | 95 |
| Fagaceae | Quercus falcata | southern red oak | * | | | 10 | | | | |
| Fagaceae | Quercus frainetto | Hungarian oak | * | 134 | | 61,97 | - | | | 97 |
| Fagaceae | Quercus gambelii | gambel oak | * | 151 (0.0121) | | 83,(65) | | | | |
| Fagaceae | Quercus garryana | Oregon white oak | * | 59.2 | | 24,84 | | | | |
| Fagaceae | Quercus glabra | | - | | | [2] | | | | |
| Fagaceae | Quercus glauca | Japanese blue oak | * | | | [2] | | | | |
| Fagaceae | Quercus ilex | holm/holly/evergreen oak | - * | 0.1 | | [40],77;61,69,75,77,89,98,99 | * | 2.3-58 | ~ | [40],61,69,75,77,89,98,99 |
| Fagaceae | Quercus ilex (adult) | holm/holly/evergreen oak | - | | | [40] | * | 18.19 | | [40] |
| Fagaceae | Quercus ilex (August) | holm/holly/evergreen oak | - | | | 77 | * | 38 | ~ | 77 |
| Fagaceae | Quercus ilex (June) | holm/holly/evergreen oak | * - | <0.05 | | 77,98,105;98,105 | * | 2.5±0.4-35.1 | sd | 77,98,105 |
| Fagaceae | Quercus ilex (May) | holm/holly/evergreen oak | - * | | | 77,98,99,105;77 | * | 2.3-27 | | 77,98,99,105 |
| Fagaceae | Quercus ilex (October) | holm/holly/evergreen oak | - * | <0.05 | | 98,105;77 | * | 22-58 | | 98,105 |
| Fagaceae | Quercus ilex (shade-adapted) | holm/holly/evergreen oak | - | | | 77 | * | 2.3 | ~ | 77 |
| Fagaceae | Quercus ilex (sun-exposed) | holm/holly/evergreen oak | - * | <0.05 | | 77,99;77,98 | * | 15-38 | ~ | 77,98,99 |
| Fagaceae | Quercus ilex (young) | holm/holly/evergreen oak | - | | | [40] | * | 8.23 | | [40] |
| Fagaceae | Quercus imbricaria | shingle oak | * | | | [2] | | | | |
| Fagaceae | Quercus incana | bluejack oak | * | 45.6 | | [3] | - | | | [3] |
| Fagaceae | Quercus ithaburiensis | | * | 0.1 | | 95 | * | 13.9 | | 95 |
| Fagaceae | Quercus kelloggii | California black oak | * | | | [2] | | | | |
| Fagaceae | Quercus laevis | scrub/Turkey oak | * | 24.3 | | [3] | * | 0.5 | | [3] |
| Fagaceae | Quercus laurifolia | laurel oak | * | 10.4 | | [2],[3] | * | 0.2 | | [3] |
| Fagaceae | Quercus libani | Lebanon oak | * | 3.2 | | 95 | * | 0.1 | | 95 |
| Fagaceae | Quercus lobata | California white/valley oak | * | 3.4 | | [2],4,34,67,86 | - * | <0.01 | | 4,86;34 |
| Fagaceae | Quercus macrocarpa | bur oak | * | | | [2] | | | | |
| Fagaceae | Quercus macrolepis | valonia oak | * | 0.2 | | 95 | * | 0.7 | | 95 |
| Fagaceae | Quercus mexicana | Mexican oak | * | 14.4 | | 95 | * | 0.1 | | 95 |
| Fagaceae | Quercus morehus | oracle oak | * | | | [2] | | | | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|----------------|-------------------------------|-----------------------------------|-----------------------------|------------|------|------------------------|--------------------------------|-------------|-----|-----------------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Fagaceae | Quercus myrtiflora | myrtle oak | * | 15.2 | | [3] | - | | | [3] |
| Fagaceae | Quercus nigra | water oak | * | 24.6 | | [3] | - | | | [3] |
| Fagaceae | Quercus palmeri | Palmer oak | * | | | [2] | | | | |
| Fagaceae | Quercus palustris | pin oak | * | | | [2] | | | | |
| Fagaceae | Quercus petraea | sessile/durmast oak | * | >0.61-45 | | [35],61,73,97 | - * | 0.12-0.47 | | [35],97;39,73 |
| Fagaceae | Quercus phellos | willow oak | * | 32.2 | | [2],[3] | - | | | [3] |
| Fagaceae | Quercus phillyraeoides | | * | | | [2] | | | | |
| Fagaceae | Quercus prinus | swamp chestnut oak | * | 6.5-90 | | 10,84,90,91,92 | * | 1.5 | | 84 |
| Fagaceae | Quercus pubescens | pubescent oak | * | 45.3-90.7 | | 61,69,89,95,97,105 | * - | 0.3 | | 95;61,97 |
| Fagaceae | Quercus pyrenaica | Pyrenees oak | * | 29.66 | | [40] | * | 1.1 | | [40] |
| Fagaceae | Quercus r. var. concordia | golden oak | * | | | [2] | | | | |
| Fagaceae | Quercus robur (pedunculata) | English/European/pendunculate oak | * | 40-76.6 | \$ | [2],[35],38,39,[40],66 | - * | 1.76 | | [35],38;39,[40] |
| Fagaceae | Quercus rotundifolia | | * | 0.2 | | 95 | * | 14.6 | | 95 |
| Fagaceae | Quercus rubra | See borealis | | | | | | | | |
| Fagaceae | Quercus rudkinii | Rudkin oak | * | | | [2] | | | | |
| Fagaceae | Quercus serrata (acutissima) | live oak | * | 24.7 | T | 17 | | | | |
| Fagaceae | Quercus spp. | | * | 68-70±35 | | 29,49,87 | * | 0.1-0.2±0.1 | | 49,87 |
| Fagaceae | Quercus stellata | post oak | * | | | 56 | | | | |
| Fagaceae | Quercus suber | cork oak | * - | <0.1 | | [2],61,97,[40] | (* - | (34.8) | | [40];61,97 |
| Fagaceae | Quercus trojana | Macedonian oak | * | 0.2 | | 95 | * | 0.2 | | 95 |
| Fagaceae | Quercus variabilis | Oriental oak | * | | | [2] | | | | |
| Fagaceae | Quercus velutina | black oak | * | 18.9-100 | | 10,84,90,91,92 | * | 1 | | 84,90,91 |
| Fagaceae | Quercus virginiana | Virginia live oak | * | 9.5-30.9 | | 1,[3],6,10,20 | * | >0.1 | | [3] |
| Fagaceae | Quercus wislizenii | interior live oak | * | 12-16.6 | | [2],58,95 | - | | | 58,95 |
| Arecaceae | Raphia farinifera | | * | | | 107 | | | | |
| Arecaceae | Raphia vinifera | | - | | | 107 | | | | |
| Strelitziaceae | Ravenala madagascariensis | | - | | | 107 | | | | |
| Rhamnaceae | Reynosa guama | | * | 181 | %t42 | 60,108 | | | | |
| Rhamnaceae | Reynosa mangle | | * - | | | 60;108 | | | | |
| Rhamnaceae | Rhamnus alaternus | Italian buckthorn | * | | | [2] | | | | |
| Rhamnaceae | Rhamnus californica | California buckthorn | * | 25.93-29.3 | | 1,[2] | - | | | 1 |
| Rhamnaceae | Rhamnus crocea/ceanothus | redberry | * | 37±12 | | 28 | - | | | 28 |
| Rhamnaceae | Rhamnus lycioides (June) | | * | 25 | | 105 | - | | | 105 |
| Rhamnaceae | Rhamnus lycioides (September) | | * | 12±4-14±7 | sd | 105 | - | | | 105 |
| Rhamnaceae | Rhamnus purshiana | cascara buckthorn | * | | | [2] | | | | |
| Rhamnaceae | Rhamnus sp. | | * | 20 | | 81 | - | | | 81 |
| Rosaceae | Rhaphiolepis indica | India hawthorne | * | | | 28 | * | | | 28 |
| Arecaceae | Rhapis humilis | slender lady palm | * | | | [2] | | | | |
| Rhizophoraceae | Rhizophora mangle | red mangrove | * (-) | <0.1 | | 49,[3] | * (-) | <0.1 | | 49,[3] |
| Ericaceae | Rhododendron maximum | rose bay rhododendron | - | | | [2] | | | | |
| Ericaceae | Rhododendron racemosum | | - | | | [2] | | | | |
| Pteridophyta | Rhumohra adiantiformis | | - | | | 109 | | | | |
| Anacardiaceae | Rhus glabra | smooth sumac | - | | | [2] | | | | |
| Anacardiaceae | Rhus leptodictya | sumac | * | 54 | | 106 | * | 1.1 | | 106 |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|----------------------|--------------------------|---------------------------|-----------------------------|-------------|-----|-------------------|--------------------------------|-----------|------------|-----|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Anacardiaceae | Rhus ovata | Sugarbush/ sugar sumac | - * | | | 57,28 | - * | | 57,28 | |
| Anacardiaceae | Rhus typhina | staghorn sumac | - | | | [2] | | | | |
| Grossulariaceae | Ribes nigrum | blackcurrant (Ben Lomond) | - | | | [35] | * | | [35] | |
| Grossulariaceae | Ribes nigrum | blackcurrant (Ben Sark) | - | | | [35] | * | | [35] | |
| Euphorbiaceae | Ricinodendron heudelotii | | - | | | 107 | | | | |
| Euphorbiaceae | Ricinus communis | caster bean plant | - | | | [2] | | | | |
| Violaceae | Rinorea sp. | | * | 0.01 | # | 107 | | | | |
| Leguminosae | Robinia pseudoacacia | black locust | * | 10.1-13.5 | | 1,[2],10,28,29,84 | * - | 4.7 | 84;28 | |
| Leguminosae | Robinia spp. | locust | * | 14±7 | | [2],49 | * | 0.2±0.1 | 49 | |
| Ehretiaceae | Rocheftoria acanthopora | | - | | | 108 | | | | |
| Papaveraceae | Romneya coulteri | matilija poppy | * | | | [2] | | | | |
| Papaveraceae | Romneya trichocalyx | bristlecup matilija poppy | * | | | [2] | | | | |
| Labiatae (Lamiaceae) | Rosmarinus officinalis | rosemary | * | <0.01 | | 61,85 | * | 2.2 | 61,85 | |
| Arecaceae | Roystonea elata | royal palm | * | | | [2] | | | | |
| Rosaceae | Rubus fruticosus | Loch Ness bramble | - | | | [35] | - | | | |
| Rosaceae | Rubus fruticosus agg. | bramble/blackberry | - | | | [35],61,75 | * (-) | 0.03 | 61,75;[35] | |
| Rosaceae | Rubus ideaus | Glenclover raspberry | - | | | [35] | - | | [35] | |
| Rosaceae | Rubus ideaus | Malling jewel raspberry | - | | | [35] | - | | [35] | |
| Rosaceae | Rubus ideaus | Prosen raspberry | - | | | [35] | - | | [35] | |
| Rosaceae | Rubus occidentalis | blackcap raspberry | - | | | [2] | | | | |
| Rosaceae | Rubus parviflorus | western thimbleberry | - | | | [2] | | | | |
| Rosaceae | Rubus sp. | | - | | | 105 | * | 0.03±0.04 | sd 105 | |
| Rosaceae | Rubus spp. | | * | <0.1 | | 87 | * | 0.2 | 87 | |
| Rosaceae | Rubus ulmifolius | | - | | | [40] | * | 0.35 | [40] | |
| Rosaceae | Rubus ursinus | blackberry | * | 0.08 | | 111 | | | | |
| Arecaceae | Sabal palmetto | cabbage palmetto | * | (4.4)-14±7 | | [3],49 | * - | <0.1 | 49;[3] | |
| Gramineae (Poaceae) | Saccharum spp. | sugar cane | - | | | [2] | | | | |
| Salicaceae | Salix alba | white willow | * | 37.2 | | [40] | * | 1.1 | [40] | |
| Salicaceae | Salix amygdaloides | peach leaf willow | * | | | [2] | | | | |
| Salicaceae | Salix atrocineria | | * | 22.69 | | [40] | * | 1.03 | [40] | |
| Salicaceae | Salix babylonica | weeping willow | * | 22.8-233±46 | sd | [2],28,[40] | - * | 0.16 | 28;[40] | |
| Salicaceae | Salix caroliniana | coast plain willow | * | 12.5 | | [3] | * | | [3] | |
| Salicaceae | Salix cinerea | sallow/pussy/grey willow | * | | | | * | | 39 | |
| Salicaceae | Salix discolor | pussy willow | * | | | [2] | | | | |
| Salicaceae | Salix hindsiana | sandbar willow | * | | | [2] | | | | |
| Salicaceae | Salix interior | sandbar willow | * | | | [2] | | | | |
| Salicaceae | Salix lasiandra | Pacific willow | * | | | [2] | | | | |
| Salicaceae | Salix lasiolepis | arroyo willow | * | | | [2] | | | | |
| Salicaceae | Salix lutea | yellow willow | * | | | [2] | | | | |
| Salicaceae | Salix matsudana | corkscrew willow | * | | | [2] | | | | |
| Salicaceae | Salix nigra | black willow | * | 22.26-25.2 | | 1,3 | - | | 1,[3] | |
| Salicaceae | Salix pentandra | bay leaved willow | * | | | 38 | - | | 38 | |
| Salicaceae | Salix phylicifolia | tea leaved willow | * | 32 | | 88 | * | 0.33 | 88 | |
| Salicaceae | Salix scouleriana | scouler willow | * | | | [2] | | | | |
| Salicaceae | Salix sp. | | * | 34 | | 79 | | | | |
| Salicaceae | Salix spp. | | * | 28±32 | sd | 105 | * | 0.8±0.9 | sd 105 | |

| | Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|--|-------------------------|-------------------------------|-------------------------|-----------------------------|---------------|-----|-----------------|--------------------------------|---------------------|------|------------|
| | | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| | Labiatae (Lamiaceae) | Salvia ballotaeflora | | - | | | 56 | * | | | 56 |
| | Labiatae (Lamiaceae) | Salvia mellifera | black sage | - | | | 1,28,58 | * | 4.2-(12) | | 8,9,28,58 |
| | Labiatae (Lamiaceae) | Salvia sp. | sage | * | 0.1 | | 81 | * | 1.5-5 | | 58,81 |
| | Caprifoliaceae | Sambucus canadensis | American elderberry | - | | | [2] | | | | |
| | Caprifoliaceae | Sambucus simponii | elderberry | - | | | [3] | - | | | [3] |
| | Acanthaceae | Sanchezia nobilis | | - | | | [2] | | | | |
| | Burseraceae | Santiria trimera | | - | | | 107 | | | | |
| | Sapotaceae | Sapindus saponaria | | - | | | 107 | | | | |
| | Gramineae (Poaceae) | Sasa palmata | sasa bamboo | * | | | [2] | | | | |
| | Lauraceae | Sassafras spp. | sassafras | - | <0.1 | | [2],10,30,49,87 | * | <0.1 | | 30,49 |
| | Anacardiaceae | Schinus molle | California pepper | - | | | 41,28 | * - | 3.7±3.4 | T sd | 41,28 |
| | Anacardiaceae | Schinus terebinthifolius | Brazilian pepper | - | | | 28,41 | * | (1.3±0.2)-10.4 | T sd | 28,41 |
| | Gramineae (Poaceae) | Schizachyrium scop. | | - | | | 56 | * | | | 56 |
| | Taxodiaceae | Sciadopitys verticillata | umbrella pine | - | | | [2] | | | | |
| | Anacardiaceae | Sclerocarya birrea (S.caphra) | Maroala plum | * | <0.5 | | 106 | * | <0.5 | | 106 |
| | Gramineae (Poaceae) | Secale cereale | rye (blossoming) | - | | | 73 | * | 0.03 | | 73 |
| | Gramineae (Poaceae) | Secale cereale | rye | - (*) | 0.0032 | | 73; [110] | * | 0.11 | | 73, [110] |
| | Euphorbiaceae | Securinea virosa | securinea | * | 81 | | 106,107 | * | 4.7 | | 106 |
| | Compositae (Asteraceae) | Senecio mikanoides | Italian ivy | - | | | [2] | | | | |
| | Compositae (Asteraceae) | Senecio vulgaris | groundsel | - | | | [3] | * | | | [3] |
| | Taxodiaceae | Sequoia sempervirens | coast redwood | - | | | [2] | * | | | 112 |
| | Taxodiaceae | Sequoiadendron giganteum | giant sequoia | - | | | [2] | | | | |
| | Arecaceae | Serenoa repens | saw palmetto | * | (8.6)-35±17.5 | | [3],49 | * | <0.1 | | [3],49 |
| | Gramineae (Poaceae) | Setaria texana | | - | | | 56 | * | | | 56 |
| | Buxaceae | Simmondsia chinensis | Arizona jojoba | * | | | [2] | | | | |
| | Gramineae (Poaceae) | Sinobambusa | tootsik | * | | | [2] | | | | |
| | Solanaceae | Solanum macranthum | | - | | | 107 | | | | |
| | Solanaceae | Solanum spp. | nightshade | - | | | [2] | | | | |
| | Solanaceae | Solanum tuberosum | potato | - | | | 1,[40],[110] | * | 0.014-1.1 | | [40],[110] |
| | Solanaceae | Solanum tuberosum | potato (Record) | - | | | [35] | - | | | [35] |
| | Leguminosae | Sophora japonica | Japanese pagoda tree | * | | | [2] | | | | |
| | Rosaceae | Sorbus americana | mountain ash | - | | | [2] | | | | |
| | Rosaceae | Sorbus aucuparia | mountain ash | * - | | | 38;39 | - | | | 38,39 |
| | Rosaceae | Sorbus scopulina | mountain ash | * | <1 | | 65 | * | >3 | | 65 |
| | Gramineae (Poaceae) | Sorghum bicolor | sorghum (Dekalb/DK 42Y) | - | | | 4,34 | * | 0.03 | | 4,34,67,86 |
| | Gramineae (Poaceae) | Sorghum sp. | sorghum | * | 0.002 | | [110] | (*) | 0.006 | | [110] |
| | Gramineae (Poaceae) | Sorghum vulgare | sorghum | - | | | 1 | | | | |
| | Leguminosae | Spartium junceum | Spanish broom | * | 5-6.4 | | 61,62,75 | * | 0.2-0.53 | | 61,75,81 |
| | Leguminosae | Spartium junceum (May) | Spanish broom | * | 6±3 | sd | 105 | * | 0.2±0.2- 0.9±0.4 | sd | 105 |
| | Leguminosae | Spartium junceum (October) | Spanish broom | * | 2 | | 105 | * | 0.5±0.2 | sd | 105 |
| | Araceae | Spathiphyllum patini | | - | | | [2] | | | | |
| | Musci | Sphagnum capillifolium | | * | | | 109 | | | | |
| | Musci | Sphagnum fuscum | | * | | | 109 | | | | |
| | Musci | Sphagnum girgensohnii | | * | | | 109 | | | | |
| | Anacardiaceae | Spondias mombin | | - | | | 107 | | | | |

| | Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|--|------------------------------|-------------------------------|----------------------|-----------------------------|------------|------|-----------|--------------------------------|-----------|-----|-----------|
| | | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| | Proteaceae | Stenocarpus sinatus | firewheel tree | * | | | [2] | | | | |
| | Sterculiaceae | Sterculia rhinopetala | | - | | | 107 | | | | |
| | Sterculiaceae | Sterculia tragacantha | | - | | | 107 | | | | |
| | Leguminosae | Stiobium deeranganum | velvet bean | * | | | [2] | | | | |
| | Gramineae (Poaceae) | Stipa leucotricha | | - | | | 56 | - | | | 56 |
| | Rubiaceae | Stipularia africana | | - | | | 107 | | | | |
| | Olaceaeae | Strombosia grandifolia | | - | | | 107 | | | | |
| | Loganiaceae | Strychnos innocua | | - | | | 107 | | | | |
| | Styracaceae | Styrax officinalis | snowdrop bush | - | | | [2] | | | | |
| | Caprifoliaceae | Symphoricarpus occidentalis | snowberry | * | <1 | | 65 | * | <0.2 | | 65 |
| | Myrtaceae | Syncarpia glomulifera | turpentine tree | * | | | [2] | | | | |
| | Oleaceae | Syringa vulgaris | lilac | - | | | [2] | | | | |
| | Myrtaceae | Syzygium guineense | | * | 0.058 | # | 107 | | | | |
| | Bignoniaceae | Tabebuia heterophylla | | - | | | 60,108 | | | | |
| | Apocynaceae | Tabernaemontana crassa | | - | | | 107 | | | | |
| | Apocynaceae | Tabernaemontana penduliflora | | - | | | 107 | | | | |
| | Taxodiaceae | Taiwania cryptomerioides | Taiwania | - | | | [2] | | | | |
| | Tamaricaceae | Tamarix africana | African tamarisk | - | | | 105 | * | 0.04±0.04 | sd | 105 |
| | Tamaricaceae | Tamarix spp. | tamarisk | - | | | [2] | | | | |
| | Loranthaceae | Tapinanthus sp. | | - | | | 107 | | | | |
| | Taxodiaceae | Taxodium distichum | bald cypress | - | | | [2] | * | | | [3] |
| | Taxodiaceae | Taxodium mucronatum | Montezuma cypress | - | | | [2] | | | | |
| | Taxodiaceae | Taxodium spp. | cypress | * (-) | <0.1 | | 49,87;[3] | * | 2.3-3±1.5 | | [3],49,87 |
| | Bignoniaceae | Tecoma spp. | trumpet-flower | - | | | [2] | | | | |
| | Bignoniaceae | Tecoma stans | | - | | | 107 | | | | |
| | Bignoniaceae | Tecomaria capensis | Cape Honeysuckle | - * | | | 57;28 | - * | | | 57;28 |
| | Pteridophyta | Tectaria cicutaria | | * | | | 109 | | | | |
| | Leguminosae | Templetonia retusa | red coral bush | * | | | [2] | | | | |
| | Combretaceae | Terminalia avicennioides | | - | | | 107 | | | | |
| | Combretaceae | Terminalia laxiflora | | - | | | 107 | | | | |
| | Combretaceae | Terminalia mantaly | | - | | | 107 | | | | |
| | Combretaceae | Terminalia prunoides | myrobolan family | * | <0.5 | | 106 | * | 3.9 | | 106 |
| | Combretaceae | Terminalia sericea | myrobolan family | * | <0.5 | | 106 | * | 1.3 | | 106 |
| | Combretaceae | Terminalia spp. | | - | | | [2] | | | | |
| | Combretaceae | Terminalia superba | | * | 0.004 | # | 107 | | | | |
| | Euphorbiaceae | Tetrorchidium didymostemon | | - | | | 107 | | | | |
| | Pteridophyta (Polypodiaceae) | Thelypteris decursive-pinnata | maiden fern | * | 21.61-24.5 | | 1,19 | - | | | 1 |
| | Pteridophyta (Polypodiaceae) | Thelypteris dentata | | * | | | 1 | | | | |
| | Pteridophyta (Polypodiaceae) | Thelypteris kunthii | | * | | | 19 | | | | |
| | Pteridophyta (Polypodiaceae) | Thelypteris plegopteri | beech fern | * | | | [2] | | | | |
| | Pteridophyta (Polypodiaceae) | Thelypteris spp. | | * | | | 109 | | | | |
| | Sterculiaceae | Theobroma cacao | cacaotree | - | | | [2] | | | | |
| | Acanthaceae | Thomandersia laurifolia | | - | | | 107 | | | | |
| | Sapindaceae | Thouinia portoricensis | | - | | | 108 | | | | |
| | Arecaceae | Thrinax morrisii | | * | 68 | %t40 | 60,108 | | | | |
| | Cupressaceae | Thuja occidentalis | northern white cedar | (-) * | | | [2];38 | * | | | 38 |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-----------------------------|------------------------------|------------------------|-----------------------------|-------------|-----|------------------|--------------------------------|-----------------------|--------------|-----|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Cupressaceae | Thuja orientalis | Chinese arbor vitae | * | | | 38 | * | | 38 | |
| Cupressaceae | Thuja plicata | western red cedar | * | 0.016±0.012 | | 111 | * | 0.071±0.051 | 10,111 | |
| Cupressaceae | Thuja spp. | | * | <0.1 | | 49 | * | 0.6±0.3 | 49 | |
| Cupressaceae | Thujaopsid dolabrata | false arbor-vitae | - | | | [2] | | | | |
| Labiatae (Lamiaceae) | Thymus vulgaris | | - | | | 105 | * | 0.2±0.3- 0.3±0.5 | sd 105 | |
| Tiliaceae | Tilia americana | American linden | (-) * | 1.0-10.0 | | [2];65 | | | | |
| Tiliaceae | Tilia cordata | little leaf linden | - | | | [2],39 | - | | 39 | |
| Tiliaceae | Tilia spp. | brasswood, linden | - | | | [2] | | | | |
| Taxaceae | Torreya californica | California nutmeg tree | - | | | [2] | | | | |
| Arecaceae | Trachycarpus fortunei | windmill palm | * | | | [2] | | | | |
| Moraceae | Treulia africana | | - | | | 107 | | | | |
| Ulmaceae | Trema guineensis | | - | | | 107 | | | | |
| Ulmaceae | Trema orientalis | | - | | | 107 | | | | |
| Meliaceae | Trichilia gilgiana | | - | | | 107 | | | | |
| Meliaceae | Trichilia sp. | | - | | | 107 | | | | |
| Bignoniaceae | Trichostema lanatum | woolly blue curls | - | | | 28,57 | * | 17.7-(21) | 28,57 | |
| Leguminosae (Papilionaceae) | Trifolium pratense | red clover | * | | | 1 | | | | |
| Leguminosae (Papilionaceae) | Trifolium repens | white clover | - | | | [35] | - | | [35] | |
| Leguminosae (Papilionaceae) | Trifolium spp. | clover | - | | | [3],30 | * | | [3],30 | |
| Moraceae | Trilepisium madagascariense | | * | 0.047 | # | 107 | | | | |
| Sterculiaceae | Triplochiton scleroxylon | | - | | | 107 | | | | |
| Myrtaceae | Tristania conferta | Brisbane box | * | | | [2] | | | | |
| Myrtaceae | Tristania laurina | | * | | | [2] | | | | |
| Arecaceae | Trithrinax acanthocoma | green trithrinax | - | | | [2] | | | | |
| Gramineae (Poaceae) | Triticum aestivum | wheat | * - | 0.02 | | 1,[110];34,39 | - (*) | 0.008 | 34; [110] | |
| Gramineae (Poaceae) | Triticum aestivum | spring wheat (Axona) | - | | | [35] | - | | [35] | |
| Gramineae (Poaceae) | Triticum aestivum | winter wheat (Fenman) | - | | | [35] | - | | [35] | |
| Gramineae (Poaceae) | Triticum aestivum | winter wheat (Norman) | - | | | [35] | - | | [35] | |
| Gramineae (Poaceae) | Triticum aestivum | winter wheat (Riband) | - | | | [35] | - | | [35] | |
| Gramineae (Poaceae) | Triticum aestivum | wheat (Yecorro Rojo) | - | | | 4 | - | | 4,34 | |
| Pinaceae | Tsuga canadensis | eastern hemlock | - | | | [2] | | | | |
| Pinaceae | Tsuga heterophylla | western hemlock | | | | | * | | 10 | |
| Pinaceae | Tsuga mertensiana | coastal hemlock | * | 0.030±0.013 | | 111 | * | 0.36±0.17 | 111 | |
| Pinaceae | Tsuga spp. | | * | <0.1 | | 49 | * | 0.2±0.1 | 49 | |
| Liliaceae | Tulipa sp. | tulip | - | | | 30 | * | | 30 | |
| Euphorbiaceae | Uapaca heudelotii | | * | | | 107 | | | | |
| Leguminosae (Papilionaceae) | Ulex europaeus (adult) | gorse | * | 0.21-8 | | [2],[35],[40],68 | - * | 0.12-6.23 | [35];[40],68 | |
| Leguminosae (Papilionaceae) | Ulex europaeus (young) | gorse | * | 4.46 | | [40] | * | 2.35 | [40] | |
| Leguminosae (Papilionaceae) | Ulex parviflorus (June) | gorse | * | 15±2-21±2 | sd | 105 | * | 0.04±0.02- 0.2±0.2 | sd 105 | |
| Leguminosae (Papilionaceae) | Ulex parviflorus (September) | gorse | * | 9±2-14±3 | sd | 105 | - | | 105 | |
| Ulmaceae | Ulmus americana | American elm | (-) * | | | [2],[3];28 | (-) * | | [3];28 | |
| Ulmaceae | Ulmus campestris | | - | | | [40] | * | 2.59 | [40] | |
| Ulmaceae | Ulmus parviflora | Chinese elm | (-) * | | | [2];28 | * | | 28 | |
| Ulmaceae | Ulmus spp. | elm | * | <0.1 | | 49,87 | * | <0.1-0.1 | 49,87 | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|--|--------------------------|---------------------------------|-----------------------------|-----------|-----|---------|--------------------------------|-----------|-----|---------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| Lauraceae | Umbellularia californica | California bay-tree | - | | | [2] | | | | |
| Urticaceae | Urtica dioica | stinging nettle | - | | | [35] | | | | [35] |
| Ericaceae | Vaccinium myrtillus | bilberry | * | 0.1 | | 38,81 | - | | | 38,81 |
| Ericaceae | Vaccinium spp. | | * | <0.1 | | 49,87 | * | <0.1-0.1 | | 49,87 |
| Ericaceae | Vaccinium uliginosum | blueberry | * | 0.0093 | | 111 | | | | |
| Ericaceae | Vaccinium vitis-ideae | cowberry/red-bilberry | * | | | 38 | - | | | 38 |
| Asteraceae | Vernonia titanophylla | | - | | | 107 | | | | |
| Caprifoliaceae | Viburnum rufidulum | snowball | - | | | [3] | - | | | [3] |
| Leguminosae (Papilionaceae) | Vicia faba | broad bean | - | | | 1,[40] | * | 0.22 | | [40] |
| Leguminosae (Papilionaceae) | Vicia faba | broad bean (Beryl) | - | | | [35] | - | | | [35] |
| Leguminosae (Papilionaceae) | Vicia faba | broad bean (Minden) | - | | | [35] | - | | | [35] |
| Leguminosae (Papilionaceae) | Vicia faba | field bean (Sutton) | - | | | [35] | - | | | [35] |
| Leguminosae (Papilionaceae) | Vicia pannonica | | - | | | 1 | | | | |
| Leguminosae | Vigna unguiculata | | * | | | 1 | | | | |
| Aquifoliaceae | Vinca minor | periwinkle | - | | | | | | | |
| Verbenaceae | Vitex doniana | | - | | | 107 | | | | |
| Vitaceae | Vitis coignetiae | Japanese grape | - | | | [2] | | | | |
| Vitaceae | Vitis vinifera | grape (chardonnay) | * | >0.002 | | 73 | * | 0.002 | | 73 |
| Vitaceae | Vitis vinifera | grape (chardonnay) with fruit | * | >0.005 | | 73 | * | 0.03 | | 73 |
| Vitaceae | Vitis vinifera | grape (table,Thompson seedless) | - | | | 4,34 | - | | | 4,34,67 |
| Vitaceae | Vitis vinifera | grape (wine,French Columbard) | - | | | 4,34 | - | | | 4,34,67 |
| Vitaceae | Vitis vinifera | European grape | - | | | 34,86 | - | | | 34,86 |
| Vitaceae | Vitis vinifera | grape | - | | | [40] | * | <0.1-0.52 | | [40],67 |
| Arecaceae | Washingtonia filifera | California fan palm | * | 9.9-11±12 | | [2],28 | - | | | 28 |
| Arecaceae | Washingtonia robusta | Mexican fan palm | * | | | [2] | | | | |
| Arecaceae | Washingtonia spp. | | * | 14±7 | | 49 | * | <0.1 | | 49 |
| Leguminosae | Wisteria floribunda | Japanese wisteria | * | | | [2] | | | | |
| Leguminosae | Wisteria spp. | wisteria | * | | | [2] | | | | |
| Compositae (Asteraceae) | Wyethia spp. | dwarf sunflower | * | | | [2] | | | | |
| Compositae (Asteraceae) | Xanthocephalum dracuna | perennial broomweed | * | <0.1 | | 56 | * | | | 56 |
| Annonaceae | Xylopia hypolampira | | - | | | 107 | | | | |
| Annonaceae | Xylopia mildbraedii | | - | | | 107 | | | | |
| Flacourtiaceae | Xylosma congestum | shiny xylosma | * | 8±3 | sd | 28 | - | | | 28 |
| Liliaceae | Yucca brevifolia | Joshua tree | - | | | [2] | | | | |
| Liliaceae | Yucca schidigera | Mohave yucca | - | | | [2] | | | | |
| Cupressaceae | Zamia floridana | coontie | - | | | [2] | | | | |
| Rutaceae | Zanthoxylum fagara | Shinner's sickle tongue | * | | | 56 | * | | | 56 |
| Gramineae (Poaceae) | Zea mays | corn | * - | | | 1;30,39 | * | | | 30 |
| Gramineae (Poaceae) | Zea mays | field corn (Pioneer 3183) | - | | | 4 | - | | | 4 |
| Ulmaceae | Zelkova serrata | sawleaf zelkova | - | | | [2] | | | | |
| Rhamnaceae | Ziziphus obtusifolia | | * | | | 56 | * | | | 56 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| MISCELLANEOUS (Species with indeterminable Latin names) | | | | | | | | | | |
| Aceraceae or Platanaceae? | | sycamore | * | | | 29 | | | | |
| | | corn | - | | | 30 | * | | | 30 |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|---|--|-------------|-----------------------------|----------|-----|-------|--------------------------------|----------|-----|-------|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| | | pensicola | - | | | [3] | | * | | [3] |
| | | beans | * | | | [3] | | - | | [3] |
| | | soybeans | (*) | 0.03 | | [110] | | (-) | | [110] |
| KEY | | | | | | | | | | |
| ** | Not clear whether Southern Red Pine (Reference 3), is <i>Pinus resinosa</i> (Pinaceae), or <i>Dacrydium cupressinum</i> (Podocarpaceae). | | | | | | | | | |
| E | Column E refers to emissions of isoprene | | | | | | | | | |
| H | Column H refers to emissions of monoterpenes | | | | | | | | | |
| * | Indicates significant emissions of monoterpenes or isoprene have been detected. | | | | | | | | | |
| - | Indicates significant emissions of monoterpenes or isoprene have NOT been detected. | | | | | | | | | |
| | Blank cell - Indicates species has not been tested for that particular hydrocarbon. | | | | | | | | | |
| - * | Indicates contradictory reports - semi-colons separate the respective references. | | | | | | | | | |
| (-) | Indicates less reliable result. | | | | | | | | | |
| 2.5-(30) | Brackets indicate less reliable result. | | | | | | | | | |
| [X] | Square brackets indicate less reliable reference | | | | | | | | | |
| # | Emission factor given in $\mu\text{gcm}^{-2}\text{h}^{-1}$ | | | | | | | | | |
| % | Emission factor given in $\text{nmol m}^{-2}\text{s}^{-1}$ | | | | | | | | | |
| ~ | Light dependent algorithm used for at least one of the monoterpene emissions. | | | | | | | | | |
| \$ | Isoprene algorithm of Schnitzler et al (1997). | | | | | | | | | |
| ! | Combination of Guenther's ('93) and Tingey's ('91) algorithms used. | | | | | | | | | |
| T | Tingey's correction algorithm used - temperature only. | | | | | | | | | |
| & | The main value given is the median with the 25th and 75th percentile bracketed. | | | | | | | | | |
| tX | Emission rate at temperature X. | | | | | | | | | |
| sp. | Unidentified species of stated genus. | | | | | | | | | |
| spp. | Generalised reference to members of the genus. | | | | | | | | | |
| sd | Mean emission rate followed by standard deviation. | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| NB. | | | | | | | | | | |
| Please note that this list is not exhaustive, and that different methods have different | | | | | | | | | | |
| detection limits. As sampling and analytical techniques have improved, it is possible | | | | | | | | | | |
| that species presently believed to be non-emitters will be found to emit isoprene and/or | | | | | | | | | | |
| monoterpenes. In addition, most of the work referenced here does not include | | | | | | | | | | |
| consideration of the developmental or physiological status of the plant, both of which | | | | | | | | | | |
| have been found to affect NMHC emissions. The emission factors given are standardised to a | | | | | | | | | | |
| temperature of 30°C and a photon flux of 1000 $\mu\text{mol m}^{-2}\text{s}^{-1}$ unless otherwise specified. | | | | | | | | | | |
| The monoterpene values are usually reported as SMT, but species emission rates have been | | | | | | | | | | |
| recorded when available. A summed emission factor has been calculated if SMT is not given. | | | | | | | | | | |
| For species with a range of values, the median was taken and species recorded as | | | | | | | | | | |
| being below a specified detection limit were assigned half the value of the detection limit. | | | | | | | | | | |
| Emission factors were calculated using Guenther's algorithms assuming light and temperature | | | | | | | | | | |
| dependence for isoprene emission and temperature dependence for monoterpene emission | | | | | | | | | | |
| with exceptions noted in the key. Where numerous emission factors have been reported, | | | | | | | | | | |
| ranges are recorded. The primary literature should be consulted for exact numbers or further | | | | | | | | | | |
| details from specific studies. It should be noted that several of the papers referenced here are | | | | | | | | | | |

| Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|--|---------|-------------|-----------------------------|----------|-----|-----|--------------------------------|----------|-----|-----|
| | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
| the products of collaborative work and may in fact be different presentations of the same research. | | | | | | | | | | |
| As a result, the number of references after a species emission rate may not be indicative of the number of studies made on that species. | | | | | | | | | | |
| This list was constructed from the results of the investigations referenced below. The initial compilation was part of a PhD thesis at Lancaster University and was entirely qualitative (Hewitt and Street, 1992). This has been updated by Paul Scholefield and Hope Stewart to include more recent publications and quantification of emissions wherever possible. The list is on the www in order to be accessible to all working in this field, to eliminate the repetition of lengthy searches of the same literature and to give direction to future research initiatives. Attempts will be made to update this list periodically and it is hoped that OVOC data will be added as it becomes available. If you wish new data to be added to the list, please contact h.stewart@lancaster.ac.uk or n.hewitt@lancaster.ac.uk . | | | | | | | | | | |
| Comments and corrections are welcome. | | | | | | | | | | |
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| | Family | Species | Common name | Isoprene Emission Potential | | | | Monoterpene Emission Potential | | | |
|-----|--|---------|-------------|-----------------------------|----------|-----|-----|--------------------------------|----------|-----|-----|
| | | | | C5 | mg/gdw/h | Key | ref | C10 | mg/gdw/h | Key | ref |
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| | END | | | | | | | | | | |