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NORTHERN CALIFORNIA AEROALLERGENIC PLANTS

GYMNOSPERMS (Conifers)		
Family Name (Scientific)	Scientific Name	Common Name
Araucaria (<i>Araucariaceae</i>)	<i>Araucaria</i> spp.	Monkey puzzle trees
Cycad (<i>Cycadaceae</i>)	<i>Cycas revoluta</i>	Sago palm
Cypress (<i>Cupressaceae</i>)	<i>Calocedrus decurrens</i> *	Incense cedar
	<i>Cupressus lawsoniana</i> *	Port Orford cedar
	<i>Cupressus macnabiana</i>	Macnab cypress
	<i>Cupressus macrocarpa</i> *	Monterey cypress;
	<i>Cupressus sempervirens</i> *	Italian cypress
	<i>Juniperus</i> spp. *	Junipers (several spp.)
	<i>Thuja</i> spp. *	Arbor-vitae; white cedar; western cedar, etc.
Ginkgo (<i>Ginkgoaceae</i>)	<i>Ginkgo biloba</i> #	Maidenhair tree
Pine (<i>Pinaceae</i>)	<i>Abies concolor</i>	White fir
	<i>Abies magnifica</i> var. (<i>magnifica</i>)	red fir
	<i>Abies magnifica</i> var. (<i>shastensis</i>)	Shasta fir
	<i>Cedrus atlantica</i> *	Atlas cedar
	<i>Cedrus deodara</i> *	Deodar cedar
	<i>Cedrus libani</i>	Cedar of Lebanon
	<i>Larix hybrids</i> *	Larch, tamarack
	<i>Picea</i> spp.	Spruce (many spp.)
	<i>Pinus</i> spp. *	Pine (many spp.)
	<i>Pseudotsuga menziesii</i> *	Douglas fir
Podocarp (<i>Podocarpaceae</i>)	<i>Podocarpus andinus</i>	Plum-fruited yew
	<i>Podocarpus macrophyllus</i>	Kusamake podocarpus
Yew (<i>Taxaceae</i>)	<i>Taxus brevifolia</i>	Pacific yew
	<i>Taxus cuspidata</i>	Japanese Yew
	<i>Torreya californica</i>	California nutmeg
Redwood (<i>Taxodiaceae</i>)	<i>Cunninghamia lanceolata</i>	China fir
	<i>Metasequoia glyptostroboides</i>	Dawn redwood
	<i>Sequoiadendron giganteum</i>	Giant redwood
	<i>Sequoia sempervirens</i> *	Coastal redwood
	<i>Tsuga heterophylla</i> *	Western hemlock
	<i>Tsuga mertensiana</i>	Mountain hemlock
ANGIOSPERMS (DICOTS)		
Family Name (Scientific)	Species Scientific Name	Species Common Name
Maple (<i>Aceraceae</i>)	<i>Acer</i> spp. *	Maple (many spp.)
	<i>Acer negundo</i> *	Box elder
Amaranth (<i>Amaranthaceae</i>)	<i>Amaranthus</i> spp. *	Pigweed (many spp.)

	<i>Celosia cristata</i>	Cockscomb
Sumac (<i>Anacardiaceae</i>)	<i>Pistacia atlantica</i> *	Atlantic pistachio
	<i>Pistacia chinensis</i> *	Chinese pistachio
	<i>Pistacia integerrima</i> *	Smooth pistachio
	<i>Pistacia kerman</i> *	Kerman pistachio
	<i>Pistacia terebinthus</i> *	Turpentine pistachio
	<i>Pistacia vera</i> & hybrids *	True pistachio
NOTE: Poison oak, poison ivy, poison sumac, cashews and mangoes are in the <i>Anacardiaceae</i> family.		
Carrot (<i>Apiaceae</i>)	<i>Anthriscus scandicina</i> #	Bur chervil
	<i>Heracleum lanatum</i> #	Cow parsnip (hogweed)
Ginseng (<i>Araliaceae</i>)	<i>Tetrapanax papyriferus</i> #	Rice paper plant
Sunflower (<i>Asteraceae</i>)	<i>Ambrosia artemisiifolia</i> *	Annual ragweed
	<i>Ambrosia psilostachya</i> *	Western ragweed
	<i>Artemisia douglasiana</i> *	Mugwort
	<i>Artemisia tridentate</i> *	Sagebrush
	Aster spp. #	Aster (many spp.)
	<i>Baccharis salicifolia</i> *	Mulefat
	<i>Chrysanthemum</i> spp. #	Chrysanthemum (usually insect-pollinated)
	<i>Chrysothamnus nauseosus</i> *	Rabbitbrush
	<i>Euthamia occidentalis</i> #	Western goldenrod
	<i>Hymenoclea salsola</i> *	Burro brush (winged ragweed)
	<i>Iva axillaries</i> *	Poverty weed
	<i>Solidago californica</i> #	California goldenrod
	<i>Solidago Canadensis</i> #	Canadian goldenrod
	<i>Taraxacum officinale</i> #	Dandelion (usually insect-pollinated)
<i>Xanthium strumarium</i> *	Cocklebur	
Birch (<i>Betulaceae</i>)	<i>Alnus incana</i> *	Mountain alder
	<i>Alnus rhombifolia</i> *	White alder
	<i>Alnus rubra</i> & hybrids *	Red alder
	<i>Betula glandulosa</i> *	Resin birch
	<i>Betula occidentalis</i> *	Water birch
	<i>Betula papyrifera</i> *	Paper birch
	<i>Betula</i> spp. & hybrids *	Birch (European, etc.)
	<i>Corylus cornuta</i>	Hazelnut, filbert
Mustard (<i>Brassicaceae</i>)	<i>Brassica nigra</i> *	Common yellow mustard (usually insect-pollinated)
	<i>Brassica rapa</i>	Field mustard (usually insect-pollinated)
	<i>Sinapsis arvensis</i> *	Charlock
Hemp (<i>Cannabaceae</i>)	<i>Cannabis sativa</i> *	Marijuana
	<i>Humulus lupulus</i> *	Hop
Casvaria (<i>Casuarinaceae</i>)	<i>Casuarina equisetoides</i> *	Beefwood, casuarina
Goosefoot (<i>Chenopodiaceae</i>)	<i>Atriplex</i> spp. *	Scale, saltbush, orach (many spp.)
	<i>Bassia hyssopifolia</i> *	Bassia
	<i>Beta vulgaris</i> #	Sugar beet; beet
	<i>Chenopodium album</i> *	Lamb's quarters

	<i>Chenopodium ambrosioides</i>	Mexican tea
	<i>Chenopodium atrovirens</i>	Dark green goosefoot
	<i>Chenopodium berlandieri</i> *	Pit-seeded goosefoot
	<i>Chenopodium botrys</i>	Jerusalem oak
	<i>Chenopodium californicum</i>	California goosefoot
	<i>Chenopodium multifidum</i>	Cut-leaved goosefoot
	<i>Chenopodium mural</i>	Nettle-leaved goosefoot
	<i>Chenopodium prateriocola</i>	Narrow-leaved goosefoot
	<i>Chenopodium pumilio</i>	Tasmanian goosefoot
	<i>Chenopodium strictum</i>	Glaucous-leaved goosefoot
	<i>Chenopodium vulvaria</i>	Stinking goosefoot
	<i>Cycloloma atriplicifolium</i>	Winged pigweed
	<i>Kochia californica</i> *	California summer cypress
	<i>Kochia scoparia</i> *	Summer cypress, tumbleweed
	<i>Krascheninnikovia lanata</i> *	Winter fat
	<i>Monolepis nuttalliana</i> *	Nuttall's poverty weed
	<i>Salsola tragus</i> *	Russian thistle
	<i>Sarcobatus vermiculatus</i> *	Greasewood
Oleaster (<i>Elaeagnaceae</i>)	<i>Elaeagnus angustifolia</i> *	Russian olive
Spurge (<i>Euphorbiaceae</i>)	<i>Chamaesyce</i> spp.	Spurge (many spp.)
	<i>Eremocarpus setigerus</i>	Turkey mullein
	<i>Euphorbia</i> spp.	Spurge (many spp.)
	<i>Mercurialis annua</i> *	Mercury (not in Butte Co. area?)
	<i>Ricinus communis</i>	Castor bean
	<i>Sapium sebiferum</i>	Chinese tallow tree
Legume (<i>Fabaceae</i>)	<i>Acacia</i> spp. *	Acacia, mimosa (many spp.)
	<i>Cytisus scoparius</i> *	Scotch broom (usually insect-pollinated)
	<i>Genista</i> spp.	Broom (several spp.; usually insect-pollinated)
	<i>Prosopis glandulosa</i> *	Mesquite (not in Butte Co. area?)
	<i>Robinia pseudo-acacia</i> *	Black locust
	<i>Spartium junceum</i>	Spanish broom (usually insect-pollinated)
Beech (<i>Fagaceae</i>)	<i>Chrysolepis sempervirens</i>	Sierran chinquapin
	<i>Fagus Grandifolia</i>	Beech
	<i>Lithocarpus densiflora</i>	Tanbark oak
	<i>Quercus berberidifolia</i> *	Scrub oak
	<i>Quercus borealis</i> *	Northern red oak
	<i>Quercus chrysolepis</i> *	Canyon live oak
	<i>Quercus douglasii</i> *	Blue oak
	<i>Quercus durata</i> *	Leather oak
	<i>Quercus garryana</i> *	Brewer oak, Oregon white oak
	<i>Quercus kelloggii</i> *	California black oak
	<i>Quercus lobata</i> *	Valley oak
	<i>Quercus nigra</i>	Water oak
	<i>Quercus palustris</i> *	Pin oak

	<i>Quercus vaccinifolia</i> *	Huckleberry oak
	<i>Quercus wislizenii</i> *	Interior live oak
NOTE: Numerous hybrids between various spp. of oaks occur in nature. The oracle oak (<i>Quercus x morehus</i>), for example, is a natural hybrid between <i>Q. kelloggi</i> and <i>Q. wislizenii</i> . Additional non-native species of oaks may have been planted within the area; presumably they would have proteins similar to those species listed and therefore produce similar aeroallergens.		
Siltassel (<i>Garryaceae</i>)	<i>Garrya fremontii</i>	Silk tassel bush
Witchhazel (<i>Hamamelidaceae</i>)	<i>Hamamelis virginiana</i>	Witchhazel
	<i>Liquidambar styraciflua</i> *	Sweet gum
Buckeye (<i>Hippocastaneaceae</i>)	<i>Aesculus californica</i>	California buckeye(usually insect-pollinated)
	<i>Aesculus hippocastanum</i> *	Horse chestnut (usually insect-pollinated)
	<i>Aesculus</i> spp. & hybrids	(Various non-native ornamental buckeyes are planted throughout the area)
Walnut (<i>Juglandaceae</i>)	<i>Carya illinoensis</i> *	Pecan
	<i>Juglans californica</i> *	Northern California black walnut
	<i>Juglans nigra</i> *	Black walnut
	<i>Juglans regia</i> *	English walnut
Mulberry (<i>Moraceae</i>)	<i>Maclura pomifera</i> *	Osage orange
	<i>Morus alba</i> *	White mulberry
	<i>Morus rubra</i>	Red mulberry
Wax Myrtle (<i>Myricaceae</i>)	<i>Myrica</i> spp. *	Wax myrtle, sweet bay
Myrtle (<i>Myrtaceae</i>)	<i>Callistemon</i> spp. *	Bottlebrush (usually bird-pollinated)
	<i>Eucalyptus</i> spp. *	Eucalyptus (many spp.)
Olive (<i>Oleaceae</i>)	<i>Fraxinus americana</i>	White ash
	<i>Fraxinus dipetala</i>	California ash
	<i>Fraxinus latifolia</i> *	Oregon ash
	<i>Fraxinus pennsylvanica</i>	Green ash, red ash
	<i>Fraxinus hybrids</i> *	Ash
	<i>Ligustrum vulgare</i>	Privet
	<i>Olea europaea</i> *	Olive
NOTE: <i>Forsythia</i> spp., which are insect-pollinated, are in the <i>Oleaceae</i> .		
Plantain (<i>Plantaginaceae</i>)	<i>Plantago</i> spp. *	Plantain (many spp.)
Sycamore (<i>Platanaceae</i>)	<i>Plantanus x acerifolia</i> *	London plane tree
	<i>Platanus orientalis</i> *	Oriental plan tree
	<i>Plantanus occidentalis</i> *	American sycamore
	<i>Plantanus racemosa</i>	Western Sycamore
Buckwheat (<i>Polygonaceae</i>)	<i>Eriogonum</i> spp.	Wild buckwheat (many spp.)
	<i>Fagopyrum esculentum</i> *	Buckwheat (buckwheat flour ingested or inhaled= allergen)
	<i>Polygonum</i> spp.	Smartweed (many spp.)
	<i>Rumex acetosella</i> *	Sheep sorrel
	<i>Rumex conglomeratus</i>	Green dock
	<i>Rumex crispus</i>	Curly dock
	<i>Rumex dentatus</i>	Toothed dock
	<i>Rumex obtusifolius</i>	Bitter dock
	<i>Rumex pulcher</i>	Fiddle dock
<i>Rumex salicifolius</i>	Willow dock	

	<i>Rumex stenophyllus</i>	Narrow-leaved dock
Buttercup (<i>Ranunculaceae</i>)	<i>Ranunculus</i> spp. #	Buttercup (many spp.)
	<i>Thalictrum fendleri</i>	Meadow rue
Buckthorn (<i>Rhamnaceae</i>)	<i>Ceanothus</i> spp. & hybrids *	Buckbrush, ceanothus(usually insect-pollinated)
	<i>Rhamnus</i> spp.	Coffeeberry, cascara, etc. (at least partly insect-pollinated)
Rose (<i>Rosaceae</i>)	<i>Pyrus</i> spp. & hybrids	Ornamental pear
	<i>Rosa</i> spp.	Rose (many spp.; usually insect-pollinated; may cause contact dermatitis)
	<i>Spiraea</i> spp. #	Spiraea
Willow (<i>Salicaceae</i>)	<i>Populus alba</i>	White poplar
	<i>Populus balsamifera</i>	Black cottonwood
	<i>Populus fremontii</i> *	Fremont's cottonwood
	<i>Populus nigra</i>	Lombardy poplar
	<i>Populus tremuloides</i>	Quaking aspen
	<i>Salix</i> spp. & hybrids *	Willow (many spp.)
Figwort (<i>Scrophulariaceae</i>)	<i>Verbascum</i> spp.#	Mullein (usually insect-pollinated; may cause contact dermatitis)
Quassia (<i>Simaroubaceae</i>)	<i>Ailanthus altissima</i> *	Tree of heaven
Tamarisk (<i>Tamaricaceae</i>)	<i>Tamarix gallica</i> *	French tamarisk
	<i>Tamarix parviflora</i> *	Tamarisk
	<i>Tamarix ramosissima</i> *	Tamarisk
Linden (<i>Tiliaceae</i>)	<i>Tilia</i> spp. *	Basswood, linden (some non-native varieties are planted in area)
Elm (<i>Ulmaceae</i>)	<i>Celtis reticulata</i> & hybrids	Hackberry
	<i>Celtis australis</i> & hybrids	Hackberry
	<i>Ulmus americana</i> & hybrids	American elm
	<i>Ulmus carpinifolia</i>	Smooth-leaved elm
	<i>Ulmus fulva</i>	Slippery elm
	<i>Ulmus minor</i>	English elm
	<i>Ulmus parvifolia</i>	Chinese elm
	<i>Ulmus pumila</i> *	Siberian elm
	<i>Zelkova serrata</i>	Zelkova
Nettle (<i>Urticaceae</i>)	<i>Hesperocnide tenella</i>	Western nettle
	<i>Urtica dioica</i> *	Hoary creek nettle
	<i>Urtica urens</i> *	Burning nettle

ANGIOSPERMS (MONOCOTS)

Family Name (Scientific)	Species Scientific Name	Species Common Name
Palm (<i>Arecaceae</i>)	<i>Chamaerops humilis</i>	Windmill palm
	<i>Washingtonia filifera</i>	Washington fan palm
Sedge (<i>Cyperaceae</i>)	<i>Carex</i> spp. #	Sedge (many spp.)
	<i>Cyperus</i> spp.	Nutsedge (many spp.)
	<i>Eleocharis</i> spp.	Spike rush (many spp.)
	<i>Eriophorum gracile</i> *	Slender cottongrass
	<i>Fimbristylis autumnalis</i>	Autumn fringestyle
	<i>Lipocarpa aristulata</i>	Awned lipocarpa

	<i>Lipocarpa micrantha</i>	Small-flowered lipocarpa
	<i>Rhynchospora californica</i>	California beaked-rush
	<i>Rhynchospora capitellata</i>	Brownish beaked-rush
	<i>Scirpus</i> spp.	Tule (many spp.)
Rush (<i>Juncaceae</i>)	<i>Juncus</i> spp.	Rush (many spp.)
	<i>Luzula comosa</i>	Common wood rush
	<i>Luzula divaricata</i>	Spreading wood rush
	<i>Luzula parviflora</i>	Small-flowered wood rush
Grass (<i>Poaceae</i>)	<i>Achnatherum</i> spp.	Needlegrass (several spp.)
	<i>Aegilops triuncialis</i>	Goatgrass
	<i>Agropyron desertorum</i> *	Crested wheatgrass
	<i>Agrostis</i> spp. *	Bentgrass (many spp.)
	<i>Aira caryophyllea</i>	Silver European hairgrass
	<i>Aira elegans</i>	Elegant European hairgrass
	<i>Alopecurus</i> spp.	Foxtail (several spp.)
	<i>Andropogon glomeratus</i>	Southwestern bushy bluestem
	<i>Andropogon sacchariodes</i>	Silver bluestem
	<i>Andropogon virginicus</i>	Boomsedge bluestem
	<i>Anthoxanthum odoratum</i> *	Large sweet vernal-grass
	<i>Aristida oligantha</i>	Oldfield three-awn
	<i>Aristida ternipes</i>	Hook three-awn
	<i>Arrhenatherum elatius</i>	Tall oatgrass
	<i>Arundo donax</i>	Giant reed
	<i>Avena barbata</i> *	Slender wild oat
	<i>Avena fatua</i> *	Wild oat
	<i>Avena sativa</i>	Cultivated oat
	<i>Bouteloa curtispindula</i> *	Side-oats gramma
	<i>Brachypodium distachyon</i>	False brome
	<i>Briza maxima</i>	Greater rattlesnake grass
	<i>Briza minor</i>	Lesser rattlesnake grass
	<i>Bromus</i> spp. *	Brome (many spp.)
	<i>Calamagrostis canadensis</i>	Bluejoint
	<i>Chloris virgata</i>	Silky chloris
	<i>Cinna latifolia</i>	Drooping wood reed
	<i>Cortaderia selloana</i>	Pampas grass
	<i>Crypsis schoenoides</i>	Swamp pricklegress
	<i>Crypsis vaginiflora</i>	African pricklegress
	<i>Cynodon dactylon</i> *	Bermuda grass
	<i>Cynosurus echinatus</i>	Dogtail grass
	<i>Dactylis glomerata</i> *	Orchard grass
	<i>Danthonia californica</i>	California outgrass
	<i>Danthonia intermedia</i>	Intermediate oatgrass
	<i>Danthonia unispicata</i>	One-spiked oatgrass
	<i>Deschampsia cespitosa</i>	Tufted hairgrass

<i>Deschampsia danthonioides</i>	Annual hairgrass
<i>Deschampsia elongata</i>	Slender hairgrass
<i>Desmazeria rigida</i>	Rigidgrass
<i>Digitaria ischaemum</i> *	Smooth crabgrass
<i>Digitaria sanguinalis</i> *	Hairy crabgrass
<i>Distichlis spicata</i> *	Saltgrass
<i>Echinochloa colona</i>	Jungle rice
<i>Echinochloa crus-galli</i>	Barnyard grass
<i>Echinochloa oryzoides</i>	Ricefield grass
<i>Eleusine indica</i>	Goosegrass
<i>Elymus</i> spp.	Squirreltail, wheat grass (many spp.)
<i>Elytrigia intermedia</i>	Intermediate wheatgrass
<i>Elytrigia pontica</i>	Tall wheatgrass
<i>Eragrostis</i> spp.	Lovegrass (several spp.)
<i>Festuca</i> spp. *	Fescue (several spp.)
<i>Gastridium ventricosum</i>	Nitgrass
<i>Glyceria borealis</i>	Northern mannagrass
<i>Glyceria elata</i>	Tall mannagrass
<i>Glyceria occidentalis</i>	Western mannagrass
<i>Hainardia cylindrica</i>	Barbgrass
<i>Holcus lanatus</i> *	Velvetgrass
<i>Hordeum</i> spp.	Barley (several spp.)
<i>Imperata brevifolia</i>	Satintail
<i>Koeleria macrantha</i> *	Junegrass
<i>Koeleria phleoides</i> *	Bristly koeler's-grass
<i>Lagurus ovatus</i>	Hare's tail
<i>Lamarckia aurea</i>	Goldentop
<i>Leersia oryzoides</i>	Rice cutgrass
<i>Leptochloa fascicularis</i>	Bearded sprangletop
<i>Leptochloa uninervia</i>	Mexican sprangletop
<i>Leymus triticoides</i>	Alkali ryegrass
<i>Lolium multiflorum</i> *	Annual ryegrass
<i>Lolium perenne</i> *	Perennial ryegrass
<i>Lolium temulentum</i> *	Darnel
<i>Melica</i> spp.	Melic grass (many spp.)
<i>Muhlenbergia</i> spp.	Muhly (many spp.)
<i>Nasella pulchra</i>	Purple needlegrass
<i>Orcuttia pilosa</i>	Hairy orcutt grass
<i>Orcuttia tenuis</i>	Slender orcutt grass
<i>Oryza sativa</i>	Rice
<i>Panicum</i> spp.	Panic grass, witchgrass (several spp.)
<i>Paspalum dilatatum</i>	Dallisgrass
<i>Paspalum distichum</i>	Knotgrass
<i>Paspalum urvillei</i>	Urville's crowngrass

<i>Pennisetum setaceum</i>	Fountain grass	
<i>Phalaris</i> spp.	Canary grass (many spp.)	
<i>Phleum alpinum</i>	Mountain timothy	
<i>Phleum pretense</i> *	Timothy	
<i>Piptatherum miliaceum</i>	Smilgrass	
<i>Poa</i> spp.*	Bluegrass (many spp.)	
<i>Polypogon australis</i>	Southern beardgrass	
<i>Polypogon interruptus</i>	Ditch beardgrass	
<i>Polypogon maritimus</i>	Mediterranean beardgrass	
<i>Polypogon monspeliensis</i>	Annual beardgrass	
<i>Puccinellia simplex</i>	Little alkali grass	
<i>Scribneria bolanderi</i>	Scribner's grass	
<i>Secale cereale</i> *	Rye	
<i>Sorghum bicolor</i>	Grain sorghum	
<i>Sorghum halepense</i> *	Johnson grass	
<i>Sorghum sudanense</i>	Sudan grass	
<i>Sporobolus cryptandrus</i>	Sand dropseed	
<i>Sporobolus indicus</i>	Smutgrass	
<i>Taeniatherum caputmedusae</i>	Medusa-head	
<i>Torreyochloa pallida</i>	Weak mannagrass	
<i>Trisetum canescens</i>	Nodding oatgrass	
<i>Trisetum spicatum</i>	Narrow oatgrass	
<i>Trisetum wolfii</i>	Beardless oatgrass	
<i>Tuctoria greenei</i>	Greene's orcutt grass	
<i>Triticum aestivum</i>	Bread wheat	
<i>Vulpia</i> spp.	Fescue (many spp.)	
<i>Zea mays</i>	Corn	
<i>Zizania palustris</i>	Wild rice	
Cattail (<i>Typhaceae</i>)	<i>Sparganium angustifolium</i>	Narrow-leaved bur reed
	<i>Sparganium emersum</i>	Emersed bur reed
	<i>Sparganium eurycarpum</i>	Broad-fruited bur reed
	<i>Typha angustifolia</i> *	Narrow-leaved cattail
	<i>Typha domingensis</i> *	Southern cattail
	<i>Typha latifolia</i> *	Broad-leaved cattail

NOTE: Other area plants producing wind-borne spores include four species of quillworts (*Isoetes*); one species of pillwort (*Pilularia*); two species of club mosses (*Selaginella*); four species of horsetails (*Equisetum*); and more than fifty species of ferns.

* Documented aeroallergen

Previously suspected aeroallergen

Data provided by Professor Sterns, California State University, Chico