

APPENDIX 1.—PLANT SPECIES COMMON AND SCIENTIFIC NAMES

Life form	Common name	Latin name	Alternate name
Tree/shrub	Acacia	<i>Acacia</i> Mill.	
Shrub/subshrub//Forb/ herb	Agave	<i>Agave</i> L.	
Tree/shrub	Alder	<i>Alnus</i> Mill.	
Forb/herb	Alpine chickweed	<i>Cerastium alpinum</i> L.	
Graminoid	Alpine fescue	<i>Festuca brachyphylla</i> Schult. ex Schult. & Schult. f.	
Tree	American chestnut	<i>Castanea dentata</i> (Marsh.) Borkh.	
Shrub	American tarwort	<i>Flourensia cernua</i> DC.	Tarbrush
Forb/herb	Annual ragweed	<i>Ambrosia artemisiifolia</i> L.	
Shrub	Antelope bitterbrush	<i>Purshia tridentata</i> (Pursh) DC.	Antelope brush; buckbrush
Graminoid	Arctic bluegrass	<i>Poa arctica</i> R. Br.	
Lichen	Arctic kidney	<i>Nephroma arcticum</i> (L.) Torss.	
Subshrub/shrub	Arctic willow	<i>Salix arctica</i> Pall.	
Graminoid	Arrow grass	<i>Triglochin</i> L.	
Lichen	Asahina's cartilage lichen ^d	<i>Ramalina asahinae</i> (L.) Ach.	
Tree	Ash	<i>Fraxinus</i> L.	
Tree	Balsam fir	<i>Abies balsamea</i> (L.) Mill.	
Tree	Balsam poplar	<i>Populus balsamifera</i> L.	
Tree	Basswood	<i>Tilia</i> L.	
Shrub	Bearberry	<i>Arctostaphylos alpina</i> (L.) Spreng.	alpine bearberry
Lichen	Beard lichen ^a	<i>Usnea</i> Dill. ex Adans.	
Tree	Beech	<i>Fagus</i> L.	
Graminoid	Big bluestem	<i>Andropogon gerardii</i> Vitman	
Tree	Big leaf maple	<i>Acer macrophyllum</i> Pursh	
Tree/Shrub	Big sagebrush	<i>Artemisia tridentata</i> Nutt.	
Tree	Bigtooth aspen	<i>Populus grandidentata</i> Michx.	
Tree/shrub	Black cherry	<i>Prunus serotina</i> , Ehrh.	
Tree/shrub	Black mangrove	<i>Avicennia germinans</i> L.	
Tree	Black oak	<i>Quercus velutina</i> , Lam.	
Tree	Black spruce	<i>Picea mariana</i> (Mill.) Britton, Sterns & Poggenb.	
Graminoid	Blue grama	<i>Bouteloua gracilis</i> (Willd. ex Kunth) Lag. ex Griffiths	
Tree	Blue oak	<i>Quercus douglasii</i> Hook. & Arn.	
Graminoid	Bluestem	<i>Andropogon</i> L.	
Tree	Box elder	<i>Acer negundo</i> L.	
Forb/herb	Bracken fern	<i>Pteridium aquilinum</i> var. <i>pubescens</i>	
Tree	Bristlecone pine	<i>Pinus aristata</i> Engelm.	
Subshrub/Shrub	Brittlebush	<i>Encelia</i> Adans.	
Shrub	Buckbrush	<i>Ceanothus cuneatus</i> (Hook.) Nutt.	
Graminoid	Buffalo grass	<i>Bouteloua dactyloides</i> (Nutt.) J.T. Columbus	<i>Buchloe dactyloides</i>
Tree/shrub	Buttonwood	<i>Conocarpus erectus</i> L.	
Tree/shrub	California ash	<i>Fraxinus dipetala</i> Hook. & Arn.	
Tree/shrub	California black oak	<i>Quercus kelloggii</i> Newberry	
Tree/shrub	California buckeye	<i>Aesculus californica</i> (Spach) Nutt.	
Tree	California foothill pine	<i>Pinus sabiniana</i> Douglas ex Douglas	Digger pine

continued

Appendix 1.—continued

Life form	Common name	Latin name	Alternate name
Tree	California redwood	<i>Sequoia sempervirens</i> (Lamb. ex D. Don) Endl.	
Forb/herb	Canada goldenrod	<i>Solidago Canadensis</i> L.	
Forb/herb	Canadian sandspurry	<i>Spergularia canadensis</i> (Pers.) G. Don	
Shrub	Ceanothus (California lilac)	<i>Ceanothus</i> spp.	
Lichen	Cetraria lichen ^a	<i>Cetraria ericetorum</i> Opiz	
Lichen	Cetraria lichen ^b	<i>Cetrariella delisei</i> (Bory ex Schaerer) Karnefelt & A. Thell	
Lichen	Cetraria lichen ^b	<i>Flavocetraria cucullata</i> (L.) Karnefelt & A. Thell	
Lichen	Cetraria lichen ^b	<i>Flavocetraria nivalis</i> (Bellardi) Karnefelt & A. Thell	
Shrub	Chamise	<i>Adenostoma fasciculatum</i> Hook. and Arn.	
Graminoid	Cheatgrass	<i>Bromus tectorum</i> L.	
Tree	Chestnut oak	<i>Quercus prinus</i> L.	
Shrub (cactus)	Cholla	<i>Cylindropuntia</i> spp.	
Forb/herb	Clover	<i>Trifolium</i> spp.	
Tree	Coast Douglas-fir	<i>Pseudotsuga menziesii</i> (Mirb.) Franco var. <i>menziesii</i>	
Tree/shrub	Coast live oak	<i>Quercus agrifolia</i> Née var. <i>oxyadenia</i> (Torr.) J.T. Howell	
Shrub	Coastal sagebrush	<i>Artemisia californica</i> Less.	California sagebrush
Tree/subshrub/shrub	Coco plum	<i>Chrysobalanus icaco</i> L.	
Graminoid	Common Mediterranean grass	<i>Schismus barbatus</i> (Loefl. ex L.) Thell.	Mediterranean splitgrass
Graminoid	Cordgrass	<i>Spartina</i> spp.	
Graminoid	Cotton grass ^a	<i>Eriophorum</i> L.	
Shrub	Creosote bush	<i>Larrea tridentata</i> (DC.) Coville	
Lichen	Cumberland xanthoparmelia lichen	<i>Xanthoparmelia cumberlandia</i> (Gyelnik) Hale	
Lichen	Cup lichen	<i>Cladonia</i> P. Browne	Reindeer lichen ^c
Graminoid	Curly sedge	<i>Carex rupestris</i> All.	
Bryophyte	Dicranum moss ^a	<i>Dicranum polysetum</i> Sw.	
Bryophyte	Dicranum moss ^a	<i>Dicranum scoparium</i> Hedw.	
Tree/shrub	Dogwood	<i>Cornus</i> L.	
Tree	Douglas-fir	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	
Shrub/subshrub	Dwarf birch	<i>Betula nana</i> L.	
Tree	Eastern hemlock	<i>Tsuga canadensis</i> (L.) Carrière	
Subshrub/shrub	Eastern Mojave buckwheat	<i>Eriogonum fasciculatum</i> Benth.	California buckwheat
Tree	Eastern red cedar	<i>Juniperus virginiana</i> L.	
Tree	Eastern white pine	<i>Pinus strobus</i> L.	white pine
Forb/herb	Eelgrass	<i>Zostera</i> spp.	
Tree	Elm	<i>Ulmus</i> L.	
Tree	Engelmann oak	<i>Quercus engelmannii</i> Greene	
Tree	Engelmann spruce	<i>Picea engelmannii</i> Parry ex Engelm.	
Subshrub/shrub/forb/ herb	Entireleaf mountain avens	<i>Dryas integrifolia</i> Vahl	
Tree	Eucalyptus	<i>Eucalyptus camaldulensis</i> Dehnh.	

continued

Appendix 1.—continued

Life form	Common name	Latin name	Alternate name
Lichen	Felt lichen ^a	<i>Peltigera aphthosa</i> (L.) Willd.	
Lichen	Felt lichen ^a	<i>Peltigera polydactylon</i> (Necker) Hoffm.	
Tree	Florida slash pine	<i>Pinus elliotii</i> Engelm.	
Tree/shrub	Flowering dogwood	<i>Cornus florida</i> L.	
Tree	Fremont cottonwood	<i>Populus fremontii</i> S. Watson	
Graminoid	Galleta grass	<i>Hilaria jamesii</i> (Torr.) Benth.	<i>Pleuraphis jamesii</i> Torr.; James galleta
Tree	Giant sequoia	<i>Sequoiadendron giganteum</i> (Lindl.) J. Buchholz	
Graminoid	Gramma grass	<i>Bouteloua</i> spp.	
Tree	Grand fir	<i>Abies grandis</i> (Douglas ex D. Don) Lindl.	
Shrub	Greasewood	<i>Sarcobatus</i> Nees	<i>Sarcobatus</i> <i>vermiculatus</i> (Hook.) Torr.
Subshrub/Forb/herb	Great ragweed	<i>Ambrosia trifida</i> L.	
Subshrub/Forb/herb	Green pitcher plant	<i>Sarracenia oreophila</i> (Kearney) Wherry	
Lichen	Greygreen reindeer lichen	<i>Cladonia rangiferina</i> (L.) F. H. Wigg.	
Tree/shrub	Gumbo limbo	<i>Bursera simaruba</i> (L.) Sarg.	
Tree/shrub	Hackberry	<i>Celtis occidentalis</i> L.	
Tree/shrub	Hawaiian holly	<i>Ilex anomala</i> Hook. & Arnott	
Shrub	Heather	<i>Calluna vulgaris</i> (L.) Hull	
Tree	Hickory	<i>Carya</i> Nutt.	
Lichen	Horsehair lichen ^a	<i>Bryoria capillaris</i> (Ach.) Brodo & D. Hawksw.	
Lichen	Horsehair lichen ^a	<i>Bryoria</i> Brodo & D. Hawksw.	
Lichen	Hydrothyria lichen	<i>Peltigera hydrothyria</i> Miadl. & Lutzoni	<i>Hydrothyria venosa</i>
Lichen	Inactive tube lichen	<i>Hypogymnia inactiva</i> (Krog) Ohlsson	
Tree	Incense cedar	<i>Calocedrus decurrens</i> (Torr.) Florin	
Graminoid	Indian ricegrass	<i>Oryzopsis hymenoides</i> (Roem. & Schult.) Ricker ex Piper	<i>Achnatherum</i> <i>hymenoides</i> (Roem. & Schult.) Barkworth
Graminoid	Indiangrass	<i>Sorghastrum nutans</i> (L.) Nash	
Tree	Jack pine	<i>Pinus banksiana</i> Lamb.	
Tree	Jeffrey pine	<i>Pinus jeffreyi</i> Balf.	
Tree/shrub	Joshua tree	<i>Yucca brevifolia</i> Engelm.	
Tree/shrub	Juniper	<i>Juniperus</i> L.	
Bryophyte	Juniper polytrichum moss	<i>Polytrichum juniperinum</i> Hedw.	
Graminoid	Kentucky bluegrass	<i>Poa pratensis</i> L.	
Tree	Koa	<i>Acacia koa</i> A. Gray	
Shrub	Labrador tea	<i>Ledum</i> L.	
Shrub/subshrub	Lingonberry	<i>vaccinium vitis-idaea</i> L.	
Graminoid	Little bluestem	<i>Schizachyrium scoparium</i> (Michx.) Nash	
Tree	Live oak	<i>Quercus virginiana</i> Mill.	Virginia live oak
Tree	Lodgepole pine	<i>Pinus contorta</i> Douglas ex Louden	
Bryophyte	Magellan's sphagnum	<i>Sphagnum magellanicum</i> Brid.	
Tree	Mahogany	<i>Swietenia mahogani</i> (L.) Jacq.	
Shrub	Manzanita	<i>Arctostaphylos</i> Adans.	
Tree	Maple	<i>Acer</i> L.	

continued

Appendix 1.—continued

Life form	Common name	Latin name	Alternate name
Subshrub/forb/herb	Marsh rosemary	<i>Limonium californicum</i> (Boiss.) A. Heller	
Lichen	Menzies' cartilage lichen	<i>Ramalina menziesii</i> Taylor	
Tree/shrub	Mesquite	<i>Prosopis</i> L.	
Tree	Mexican mountain pine	<i>Pinus hartwegii</i> Lindl.	
Subshrub/shrub	Mountain heather	<i>Cassiope</i> D. Don	
Tree	Mountain hemlock	<i>Tsuga mertensiana</i> (Bong.) Carrière	
Shrub	Mountain-avens	<i>Dryas</i> L.	
Graminoid	Muhly grass	<i>Muhlenbergia</i> Schreb.	
Tree	Nemoca cimarrona	<i>Ocotea spathulata</i> Mez	
Tree/shrub	Netleaf hackberry	<i>Celtis laevigata</i> Willd. var. <i>reticulata</i> (Torr.) L.D. Benson	
Tree	Nootka cypress	<i>Callitropsis nootkatensis</i> (D. Spach)	Alaska yellow-cedar; <i>Cupressus nootkatensis</i> D. Don
Tree	Northern red oak	<i>Quercus rubra</i> L.	Red oak
Tree	Northern white-cedar	<i>Thuja occidentalis</i> L.	
Tree	Norway spruce	<i>Picea abies</i> (L.) Karst.	
Tree	Oak	<i>Quercus</i> L.	
Tree/shrub	Ohi'a lehua	<i>Metrosideros polymorpha</i> Gaud	
Tree	Olapa	<i>Cheirodendron</i>	
Lichen	Orange wall lichen ^a	<i>Xanthoria</i> (Fr.) Th. Fr.	
Lichen	Orange wall lichen ^e	<i>Xanthomendoza</i> S. Kondr. & Kärnefelt	
Lichen	Orange wall lichen ^e	<i>Xanthomendoza fallax</i> (Hepp ex Arnold) Søchting, Kärnefelt & S. Kondr.	
Tree	Oregon ash	<i>Fraxinus latifolia</i> Benth	
Tree/shrub	Oregon white oak	<i>Quercus garryana</i> Douglas ex Hook.	Garry oak
Tree	Pacific madrone	<i>Arbutus menziesii</i> Pursh	
Tree	Pacific silver fir	<i>Abies amabilis</i> (Douglas ex Loudon) Douglas ex Forbes	silver fir
Tree/shrub	Palo Colorado	<i>Cyrilla racemiflora</i> L.	Swamp titi
Tree/shrub	Paloverde	<i>Parkinsonia</i> L.	
Tree	Paper birch	<i>Betula papyrifera</i> Marsh.	White birch
Lichen	parmotrema lichen ^a	<i>Parmotrema stuppeum</i> (Taylor) Hale	
Tree	Persimmon	<i>Diospyros virginiana</i> L.	common persimmon
Tree	Pignut hickory	<i>Carya glabra</i> (Mill.) Sweet	
Tree	Pine	<i>Pinus</i> L.	
Bryophyte	Polytrichum moss	<i>Polytrichum commune</i> Hedw.	
Tree	Ponderosa pine	<i>Pinus ponderosa</i> C. Lawson	
Shrub (cactus)	Prickly pear cactus	<i>Opuntia</i> Mill.	
Forb/herb	Purple mountain saxifrage	<i>Saxifraga oppositifolia</i> L.	
Subshrub/forb/herb	Purple pitcher plant	<i>Sarracenia purpurea</i> L.	
Graminoid	Quackgrass	<i>Agropyron repens</i> (L.) P. Beauv.	<i>Elymus repens</i> (L.) Gould
Tree	Quaking aspen	<i>Populus tremuloides</i> Michx.	Trembling aspen
Graminoid	Quillworts	<i>Isoetes</i> L.	
Shrub	Rabbit brush	<i>Chrysothamnus</i> spp.	

continued

Appendix 1.—continued

Life form	Common name	Latin name	Alternate name
Lichen	Ragged lichen ^a	<i>Platismatia glauca</i> (L.) W. L. Culb.. & C. F. Culb.	
Tree	Red alder	<i>Alnus rubra</i> Bong.	
Graminoid	Red brome	<i>Bromus rubens</i> L.	
Tree/shrub	Red mangrove	<i>Rhizophora mangle</i> L.	
Tree	Red maple	<i>Acer rubrum</i> L.	
Tree	Red pine	<i>Pinus resinosa</i> Ait.	
Tree	Red spruce	<i>Picea rubens</i> Sarg.	
Lichen	Reindeer lichen ^c	<i>Cladonia mitis</i> Sandst.	
Lichen	Ring lichen ^a	<i>Evernia mesomorpha</i> Nyl.	
Tree	River birch	<i>Betula nigra</i> L.	black birch
Tree	Rocky Mountain Douglas-fir	<i>Pseudotsuga menziesii</i> (Mirb.) Franco var. <i>glauca</i> (Beissn.) Franco	
Forb/herb	Round head lespedeza	<i>Lespedeza capitata</i> Michx.	Round-head bush-clover
Forb/herb	Roundleaf sundew	<i>Drosera rotundifolia</i> L.	
Forb/herb	Russian Thistle	<i>Salsola iberica</i> (Sennen & Pau) Botsch. ex Czerep.	<i>Salsola tragus</i> L.
Subshrub/shrub	Sacahuista	<i>Nolina microcarpa</i> S. Watson	
Tree	Sacred fir	<i>Abies religiosa</i> (H.B.K.) Schl. et Cham.	
Forb/herb	Sage	<i>Salvia</i> L.	
Subshrub/shrub	Sagebrush	<i>Artemisia</i> L.	
Tree (cactus)	Saguaro	<i>Cereus gigantea</i> Engelm.	<i>Carnegiea gigantea</i> (Engelm.) Britton & Rose
Shrub	Saltbush	<i>Atriplex</i> L.	
Graminoid	Saltgrass	<i>Distichlis spicata</i> (L.) Greene	
Graminoid	Saltmeadow cordgrass	<i>Spartina patens</i> (Aiton) Muhl.	
Tree/shrub	Saw palmetto	<i>Serenoa repens</i> (Bartram) Small	
Tree	Scarlet oak	<i>Quercus coccinea</i> Münchh.	
Bryophyte	Schreber's big red stem moss	<i>Pleurozium schreberi</i> (Brid.) Mitt.	
Tree	Scots pine	<i>Pinus sylvestris</i> L.	Scotch pine
graminoid	Sheep fescue	<i>Festuca ovina</i> L.	
Lichen	Shield lichen ^a	<i>Parmelia sulcata</i>	
Tree	Sitka spruce	<i>Picea sitchensis</i> (Bong.) Carrière	
Lichen	Skin lichen ^a	<i>Leptogium rivale</i> Tuck.	
Graminoid	Smooth cordgrass	<i>Spartina alterniflora</i> Loisel.	
Lichen	Snow lichen ^a	<i>Stereocaulon</i> Hoffm.	
Lichen	Snow lichen ^a	<i>Stereocaulon paschale</i> (L.) Hoffm.	
Tree/shrub	Soaptree yucca	<i>Yucca elata</i> (Engelm.) Engelm.	
Tree/shrub	Southern California walnut	<i>Juglans californica</i> S. Watson	
Tree	Southern oak	<i>Quercus falcata</i> Michx.	Southern red oak
Tree	Spanish fir	<i>Abies pinsapo</i> Boiss.	
Bryophyte	Sphagnum	<i>Sphagnum fuscum</i> (Schimp.) Klinggr.	brown peatmoss
Bryophyte	Sphagnum ^a	<i>Sphagnum</i> L.	
Bryophyte	Sphagnum ^a	<i>Sphagnum fuscum</i> (Schimp.) Klinggr.	
Bryophyte	Splendid feather moss	<i>Hylocomium splendens</i> (Hedw.) Schimp.	

continued

Appendix 1.—continued

Life form	Common name	Latin name	Alternate name
Lichen	Star reindeer lichen	<i>Cladonia stellaris</i> (Opiz) Pouzar & Vězda	
Forb/herb	Stickywilly	<i>Galium aparine</i> L.	
Forb/herb	Stork's bill	<i>Erodium cicutarium</i> (L.) L'Hér. ex Aiton	
Tree/shrub/vine	Strangler fig	<i>Ficus aurea</i> Nutt.	
Tree	Subalpine fir	<i>Abies lasiocarpa</i> (Hook.) Nutt.	
Tree	Sugar maple	<i>Acer saccharum</i> Marsh.	
Tree	Sugar pine	<i>Pinus lambertiana</i> Douglas	
Tree	Sweet gum	<i>Liquidambar styraciflua</i> L.	
Graminoid	Switchgrass	<i>Panicum virgatum</i> L.	
Tree	Tabonuco tree	<i>Dacryodes excels</i> Vahl	
Graminoid	Tall fescue	<i>Schedonorus phoenix</i> (Scop.) Holub	<i>Festuca arundinacea</i> Schreb.
Tree	Tamarack	<i>Larix laricina</i> (Du Roi) K. Koch	American larch
Tree/shrub	Texas live oak	<i>Quercus fusiformis</i> Small	
Graminoid	Threeawn	<i>Aristida</i> L.	
Graminoid	Tobosagrass	<i>Pleuraphis mutica</i> Buckley	<i>Hilaria mutica</i>
Tree/shrub	Toyon	<i>Heteromeles arbutifolia</i> (Lindl.) M. Roem.	
Lichen	Tube lichen ^a	<i>Hypogymnia enteromorpha</i> (Ach.) Nyl.	
Lichen	Tube lichen ^a	<i>Hypogymnia physodes</i> (L.) Nyl.	
Forb/herb	Tule	<i>Schoenoplectus acutus</i> (Muhl. ex Bigelow) A. Löve & D. Löve var. <i>occidentalis</i> (S. Watson) S.G. Sm.	
Graminoid	Tussock cottongrass	<i>Eriophorum vaginatum</i> L.	
Subshrub/forb/herb	Virginia glasswort	<i>Salicornia depressa</i> Standl.	<i>Salicornia virginica</i> L.
Graminoid	Wavy hairgrass	<i>Deschampsia flexuosa</i> (L.) Trin.	
Tree	Western hemlock	<i>Tsuga heterophylla</i> (Raf.) Sarg.	
Tree	Western juniper	<i>Juniperus occidentalis</i> Hook.	
Tree	Western red cedar	<i>Thuja plicata</i> Donn ex D. Don	
Tree	Western white pine	<i>Pinus monticola</i> Douglas ex D. Don	
Graminoid	Wheatgrass	<i>Agropyron</i> Gaertn.	
Tree	White ash	<i>Fraxinus americana</i> L.	
Tree	White fir	<i>Abies concolor</i> (Gord. & Glend.) Lindl. ex Hildebr.	
Tree/shrub	White mangrove	<i>Laguncularia racemosa</i> (L.) Gaertn. f.	
Tree	White spruce	<i>Picea glauca</i> (Moench)Voss	
Subshrub/shrub	Whortleberry	<i>Vaccinium myrtillus</i> L.	
Tree/shrub	Willows	<i>Salix</i> L.	
Lichen	Witch's hair lichen ^a	<i>Alectoria nigricans</i> (Ach.) Nyl.	
Lichen	Witch's hair lichen ^a	<i>Alectoria ochroleuca</i> (Hoffm.) A. Massal.	
Lichen	Witch's hair lichen ^a	<i>Alectoria sarmentosa</i> (Ach.) Ach.	
Lichen	Wolf lichen	<i>Letharia vulpina</i> (L.) Hue	
Tree	Yellow birch	<i>Betula alleghaniensis</i> Britt.	
Tree	Yellow-poplar	<i>Liriodendron tulipifera</i> L.	Tulip tree

^a The same common name is used for all species in the genus.

^b This common name has not been updated in the NRCS plants database (NRCS 2010) since the genus name changed.

^c General common name for species that were formerly in the genus *Cladina*.

^d This common name is not listed in the NRCS plants database (NRCS 2010), but follows NRCS naming conventions.

^e General common name for species that were formerly in the genus *Xantharia*; this common name has not been updated in the NRCS plants database (NRCS 2010) since the genus name changed.

NRCS (National Resources Conservation Service). 2010. PLANTS database. Baton Rouge, LA: U.S. Department of Agriculture, Natural Resources Conservation Service, National Plant Data Center. Available at: <http://plants.usda.gov> (Accessed February 9, 2011).

APPENDIX 2.—CHEMICAL APPENDIX

Chemical formula or abbreviation	Chemical name or terminology
Al	Aluminum
ANH ₄ I	Aitken mode ammonium mass
ANH ₄ J	Accumulation mode ammonium mass
ANO ₃ I	Aitken mode aerosol nitrate mass
ANO ₃ J	Accumulation mode nitrate mass
C	Carbon
C ₁₈ H ₁₆ O ₇	Usnic acid
CH ₄	Methane
CO ₂	Carbon dioxide
Ca	Calcium
HNO ₃	Nitric acid
HONO	Nitrous acid
H ₂ S	Hydrogen sulfide
H ₂ SO ₄	Sulfuric acid
Hg	Mercury
K	Potassium
KH ₂ PO ₄	Potassium dihydrogen phosphate
MA-PAN	PAN analogue formed from methacrolein (C ₄ H ₆ O)
Mg	Magnesium
N	Nitrogen
NH ₃	Ammonia
NH ₄ ⁻	Ammonium
NH ₄ Cl	Ammonium chloride
NH ₄ NO ₃	Ammonium nitrate
(NH ₄) ₂ SO ₄	Ammonium sulfate
NH _x	NH ₃ and NH ₄ ⁻
NO	Nitric oxide
NO ₂	Nitrogen dioxide
NO ₃ ⁻	Nitrate
NO _x	Nitric oxides
NO _y	NO, NO ₂ , nitric acid (HNO ₃), organic and inorganic nitrates
N ₂	Nitrogen gas
N ₂ O	Nitrous oxide
N ₂ O ₅	Dinitrogen pentoxide
NaNO ₃	Sodium nitrate
O ₃	Ozone
P	Phosphorus
PAN (C ₂ H ₃ NO ₅)	Peroxyacetyl nitrate
PAN2 (RCO ₅ N)	Higher peroxyacetyl nitrate (based on peroxypropyl nitrate)
PBZN (C ₇ H ₅ NO ₅)	Peroxybenzoyl nitrate
RNO ₃	Organic nitrates
S	Sulfur
SO ₂ ⁻	Sulfur dioxide
SO ₄ ²⁻	Sulfate
SO _x	Sulfur oxides