

The following are excerpted from the education page of the National Soil Survey Center's education page:
http://www.statlab.iastate.edu/soils/nssc/educ/soil_frm.htm

Formative Elements in Names of Soil Orders

<u>Soil Order</u>	<u>Formative Terms</u>	<u>Pronunciation</u>
<u>Alfisols</u>	Alf, meaningless syllable	<u>Pedalfer</u>
<u>Andisols</u>	Modified from ando	<u>Ando</u>
<u>Aridisols</u>	Latin, aridies, dry	<u>Arid</u>
<u>Entisols</u>	Ent, meaningless	<u>Recent</u>
<u>Gelisols</u>	Latin gelare, to freeze	<u>Jell</u>
<u>Histosols</u>	Greek, histos, tissue	<u>Histology</u>
<u>Inceptisols</u>	Latin, incepum, beginning	<u>Inception</u>
<u>Mollisols</u>	Latin, mollis, soft	<u>Mollify</u>
<u>Oxisols</u>	French oxide	<u>Oxide</u>
<u>Spodosols</u>	Greek spodos, wood ash	<u>Odd</u>
<u>Ultisols</u>	Latin ultimus, last	<u>Ultimate</u>
<u>Vertisols</u>	Latin verto, turn	<u>Invert</u>

Formative Elements in Names of Soil Suborders

<u>Formative Element</u>	<u>Derivation</u>	<u>Sounds Like</u>	<u>Connotation</u>
Alb	L. <i>albus</i> , white	<u>Albino</u>	Presence of albic horizon
Anthr	Modified from Gr. <i>anthropes</i> , human	<u>Anthropology</u>	Modified by humans
Aqu	L. <i>aqua</i> , water	<u>Aquifer</u>	Aquic conditions
Ar	L. <i>Arare</i> , to plow	<u>Arable</u>	Mixed horizons
Arg	Modified from argillic horizon; L. <i>argilla</i> , white clay	<u>Argillite</u>	Presence of argillic horizon
Calc	L. <i>calcis</i> , lime	<u>Calcium</u>	Presence of a calcic horizons
Camb	L. <i>cambiare</i> , to exchange	<u>Am</u>	Presence of a cambic horizon
Cry	G. <i>kryos</i> , icy cold	<u>Cry</u>	Cold
Dur	L. <i>durus</i> , hard	<u>Durable</u>	Presence of a duripan
Fibr	L. <i>fibra</i> , fiber	<u>Fibrous</u>	Least decomposed stage
Fluv	L. <i>fluvius</i> , river	<u>Fluvial</u>	Flood plain
Fol	L. <i>folia</i> , leaf	<u>Foliage</u>	Mass of leaves
Gyps	L. <i>gypsum</i> , gypsum	<u>Gypsum</u>	Presence of a gypsic horizon
Hem	Gr <i>hemi</i> , half	<u>Hemisphere</u>	Intermediate stage of decomposition
Hist	Gr. <i>histos</i> , tissue	<u>Histology</u>	Presence of organic materials
Hum	L. <i>humus</i> , earth	<u>Humus</u>	Presence of organic matter
Orth	Gr. <i>orthos</i> , true	<u>Orthodox</u>	The common ones
Per	L. Per, throughout in time	<u>Perennial</u>	Perudic moisture regime
Psamm	Gr. <i>psammos</i> , sand	<u>Sam</u>	Sandy texture
Rend	Modified from Rendzina	<u>End</u>	High carbonate content
Sal	L. base of sal, salt	<u>Saline</u>	Presence of a salic horizon
Sapr	Gr. <i>sapros</i> , rotten	<u>Sap</u>	Most decomposed stage
Torr	L. <i>torridus</i> , hot and dry	<u>Or</u>	Torric moisture regime
Turb	L. <i>Turbidis</i> , disturbed	<u>Turbulent</u>	Presence of cryoturbation
Ud	L. <i>udus</i> , Humid	<u>You</u>	Udic moisture regime
Vitr	L. <i>vitrum</i> , glass	<u>It</u>	Presence of glass
Ust	L. <i>ustus</i> , burnt	<u>Combustion</u>	Ustic moisture regime
Xer	Gr. <i>xeros</i> , dry	<u>Zero</u>	Xeric moisture regime

Formative Elements in Names of Soil Great Groups

<u>Formative Element</u>	<u>Derivation</u>	<u>Sounds Like</u>	<u>Connotation</u>
Acr	Modified from Gr. <i>Akros</i> , at the end	<u>Act</u>	Extreme weathering
Al	Modified from aluminum	<u>Algebra</u>	High aluminum, low iron
Alb	L. <i>Albus</i> , white	<u>Albino</u>	An albic horizon
Anhy	Gr. <i>anydros</i> , waterless	<u>Anhydrous</u>	Very dry
Anthr	Modified from Gr. <i>anthropos</i> , human	<u>Anthropology</u>	An anthropic epipedon
Aqu	L. <i>aqua</i> , water	<u>Aquifer</u>	Aquic conditions
Argi	Modified from argillic horizon; L. <i>argilla</i> , <i>white clay</i>	<u>Argillite</u>	Presence of an argillic horizon
Calci, calc	L. <i>calcis</i> , lime	<u>Calcium</u>	A calcic horizon
Cry	Gr. <i>kryos</i> , icy cold	<u>Cry</u>	Cold
Dur	L. <i>durus</i> , hard	<u>Durable</u>	A duripan
Dystr, dys	Modified from Gr. <i>dys</i> , ill; dystrophic infertile	<u>Distant</u>	Low base saturation
Endo	Gr. <i>endon</i> , <i>endo</i> , within	<u>Endothermic</u>	Implying a ground water table
Epi	Gr. <i>epi</i> , on, above	<u>Epidermis</u>	Implying a perched water table
Eutr	Modified from Gr. <i>eu</i> , good; eutrophic, fertile	<u>You</u>	High base saturation
Ferr	L. <i>ferrum</i> , iron	<u>Fair</u>	Presence of iron
Fibr	L. <i>fibra</i> , fiber	<u>Fibrous</u>	Least decomposed stage
Fluv	L. <i>fluvius</i> , river	<u>Fluvial</u>	Flood plain
Fol	L. <i>folia</i> , leaf	<u>Foliage</u>	Mass of leaves
Fragi	Modified from L. <i>fragilis</i> , brittle	<u>Fragile</u>	Presence of fragipan
Fragloss	Compound of fra (g) and gloss		See the formative elements "frag" and "gloss"
Fulv	L. <i>fulvus</i> , dull brownish yellow	<u>Full</u>	Dark brown color, presence of organic carbon
Glac	L. <i>glacialis</i> , icy	<u>Glacier</u>	Ice lenses or wedges
Gyps	L. <i>gypsum</i> , gypsum	<u>Gypsum</u>	Presence of gypsic horizon
Gloss	Gr. <i>glossa</i> , tongue	<u>Glossary</u>	Presence of a glosso horizon
Hal	Gr. <i>hals</i> , salt	<u>Halibut</u>	Salty
Hapl	Gr. <i>haploous</i> , simple	<u>Haploid</u>	Minimum horizon development

Hem	G. <i>hemi</i> , half	<u>Hemisphere</u>	Intermediate stage of decomposition
Hist	Gr. <i>histos</i> , tissue	<u>History</u>	Presence of organic materials
Hum	L. <i>humus</i> , earth	<u>Humus</u>	Presence of organic matter
Hydr	Gr. <i>hydo</i> , water	<u>Hydrophobia</u>	Presence of water
Kand, kan	Modified from kandite	Can	1:1 layer silicate clays
Luv	Gr. <i>louo</i> , to wash	Ablution	Illuvial
Melan	Gr. <i>melasanos</i> , black	Me + Land	Black, presence of organic carbon
Moll	L. <i>mollis</i> , soft	<u>Mollusk</u>	Presence of a mollic epipedon
Natr	Modified from <i>natrium</i> , sodium	Date	Presence of natric horizon
Pale	Gr. <i>paleos</i> , old	<u>Paleontology</u>	Excessive development
Petr	Gr. comb. form of <i>petra</i> , rock	<u>Petrified</u>	A cemented horizon
Plac	Gr. base of <i>plax</i> , flat stone	<u>Placard</u>	Presence of thin pan
Plagg	Modified from Ger. <i>plaggen</i> , sod	Awe	Presence of plaggen epipedon
Plinth	Gr. <i>plinthos</i> , brick	In	Presence of plinthite
Psamm	Gr. <i>psammos</i> , sand	Sam	Sandy texture
Quartz	Ger. <i>quarz</i> , quartz	Quarter	High quartz content
Rhod	Gr. base of <i>rhodon</i> , rose	<u>Rhododendron</u>	Dark red color
Sal	L. base of <i>sal</i> , salt	<u>Saline</u>	Presence of salic horizon
Sapr	Gr. <i>saproze</i> , rotten	Sap	Most decomposed stage
Somb	F. <i>sombre</i> , dark	<u>Somber</u>	Presence of sombric horizon
Sphagn	Gr. <i>sphagnos</i> , bog	<u>Sphagnum</u>	Presence of Sphagnum
Sulf	L. <i>sulfur</i> , sulfur	<u>Sulfur</u>	Presence of sulfides or their oxidation products
Torr	L. <i>torridus</i> , hot and dry	<u>Torrid</u>	Torric moisture regime
Ud	L. <i>udus</i> , humid	You	Udic moisture regime
Umbr	L. <i>umbra</i> , shade	<u>Umbrella</u>	Presence of umbric epipedon
Ust	L. <i>ustus</i> , burnt	<u>Combustion</u>	Ustic moisture regime
Verm	L. base of <i>vermes</i> , worm	<u>Vermilion</u>	Wormy, or mixed by animals
Vitr	L. <i>vitrum</i> , glass	It	Presence of glass
Xer	Gr. <i>xeros</i> , dry	Zero	Xeric moisture regime