

# Newsletter

## In This Issue—

Names of Orders, Suborders, Great Groups, and Subgroups .....	1
Alfisols .....	2
Andisols .....	5
Aridisols .....	7
Entisols .....	10
Gelisols .....	12
Histosols .....	13
Inceptisols .....	14
Mollisols .....	16
Oxisols .....	20
Spodosols .....	22
Ultisols .....	23
Vertisols .....	25

## Editor's Note

Issues of this newsletter are available on the World Wide Web ([www.statlab.iastate.edu/soils/soildiv](http://www.statlab.iastate.edu/soils/soildiv)). Click on NCSS and then on the desired issue number of the NCSS Newsletter.

You are invited to submit stories for future issues of this newsletter to Stanley Anderson, National Soil Survey Center, Lincoln, Nebraska. Phone—402-437-5357; FAX—402-437-5336; email—[sanderson@nssc.nrcs.usda.gov](mailto:sanderson@nssc.nrcs.usda.gov).



## Names of Orders, Suborders, Great Groups, and Subgroups

By Stanley Anderson, editor, National Soil Survey Center, Lincoln, Nebraska.

This issue of the NCSS Newsletter consists of a table showing the orders, suborders, great groups, and subgroups that will be included in the new edition of *Soil Taxonomy*, which will be published this year. The number of subgroups may change between now and the publication date, because new subgroups are continually being recommended by soil scientists from around the world. The table is presented in this newsletter because of anticipated interest in its contents on the part of soil scientists in the National Cooperative Soil Survey. The newsletter is available on the World Wide Web, as is indicated in the “Editor’s Note” on this page. Thus, soil scientists have access to an electronic version of the table, which they may be able to print out on their own computer systems.

I hope that soil scientists in the National Cooperative Soil Survey will find this table newsworthy. I admit that the table is not exactly “chatty” news. The information in the table, however, is important to the likely readers of this newsletter. The names in the table apply to the soils throughout the world. I think of soil taxonomy as a vast intellectual structure, something like a huge mansion with 12 elaborate rooms (some more elaborate than others). Families are in these rooms, but their place in this imposing

structure is another matter and is the subject of another chapter in *Soil Taxonomy*.

I count 12 orders in the table, 64 suborders, 317 great groups, and 2,435 subgroups. I am sure about the number of orders and suborders, pretty sure about the number of great groups, and not so sure about the number of subgroups. I would not bet the mortgage that my count of the subgroups is accurate. Those who cannot resist the urge to count the subgroups should know that there are potentially 49 lines in each column of the table and should use the following key.

## Key to Columns of Subgroups

A. Columns that show fewer than 49 subgroups because they meet *one or more* of the following:

1. Have a “continued” line at the beginning of a page; *or*
2. Have lengthy great group or subgroup names that make up two lines; *or*
3. Are only 48 lines long on page 26 because of the editor’s desire to lengthen the column on page 27 by two lines; *or*
4. Ran out of subgroups at the end of the table, before reaching line 49.

### Less Numeric Cols

B. Other columns.

### Typic Cols

## Description of Typic Cols

Typic Cols are those columns that have *both*:

1. 49 lines; *and*
2. 49 subgroups.

NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
Alfisols .....	Aqualfs .....	Cryaqualfs .....	Typic.				Arenic,
		Plinthaqualfs .....	Typic.				Grossarenic,
		Duraqualfs .....	Typic.				Aeric Umbric,
		Natraqualfs .....	Vertic,				Udollic,
			Vermic,				Aeric,
			Albic Glossic,				Mollic,
			Albic,				Umbric,
			Glossic,				Typic.
			Mollic,			Endoaqualfs .....	Aquandic,
			Typic.				Chromic Vertic,
		Fragiaqualfs .....	Vermic,				Vertic,
			Aeric,				Aeric Fragic,
			Plinthic,				Fragic,
			Humic,				Arenic,
			Typic.				Grossarenic,
		Kandiaqualfs ....	Arenic,				Udollic,
			Grossarenic,				Aeric Umbric,
			Plinthic,				Aeric,
			Aeric Umbric,				Mollic,
			Aeric,				Umbric,
			Umbric,				Typic.
			Typic.			Cryalfs .....	Palecryalfs .....
		Vermaqualfs .....	Natric,				Andic,
			Typic.				Vitrandic,
		Albaqualfs .....	Arenic,				Aquic,
			Aeric Vertic,				Oxyaquic,
			Chromic Vertic,				Xeric,
			Vertic,				Ustic,
			Udollic,				Mollic,
			Aeric,				Umbric,
			Aquandic,				Typic.
			Mollic,			Glossocryalfs ....	Lithic,
			Umbric,				Vertic,
			Typic.				Andic,
		Glossaqualfs ....	Histic,				Vitrandic,
			Arenic,				Aquic,
			Aeric Fragic,				Oxyaquic,
			Fragic,				Fragic,
			Aeric,				Xerollic,
			Mollic,				Umbric Xeric,
			Typic.				Ustollic,
		Epiaqualfs .....	Aeric Chromic				Xeric,
			Vertic,				Ustic,
			Aeric Vertic,				Mollic,
			Chromic Vertic,				Umbric,
			Vertic,				Eutric,
			Aquandic,				Typic.
			Aeric Fragic,			Haplocryalfs ....	Lithic,
			Fragic,				Vertic,
							Andic,

NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Haplocryalfs (continued) .....	Vitrandid, Aquic, Oxyaquic, Lamellic, Psammentic, Inceptic, Xerollic, Umbric Xeric, Ustollic, Xeric, Ustic, Mollic, Umbric, Eutric, Typic.			Paleustalfs .....	Aquertic, Oxyaquic Vertic, Udertic, Vertic, Aquic Arenic, Aquic, Oxyaquic, Lamellic, Psammentic, Arenic Aridic, Grossarenic, Arenic, Plinthic, Petrocalcic, Calcidic, Aridic, Kandic, Rhodic, Ultic, Udic, Typic.
	Ustalfs .....	Durustalfs .....	Typic.			Rhodustalfs .....	Lithic, Kanhaplic, Udic, Typic.
		Plinthustalfs .....	Typic.			Haplustalfs .....	Lithic, Aquertic, Oxyaquic Vertic, Torrertic, Udertic, Vertic, Aquic Arenic, Aquultic, Aquic, Oxyaquic, Vitrandid, Lamellic, Psammentic, Arenic Aridic, Arenic, Calcidic, Aridic, Kanhaplic, Inceptic, Calcic Udic, Ultic, Calcic, Udic, Typic.
		Natrustalfs .....	Salidic, Leptic Torrertic, Torrertic, Aquertic, Aridic Leptic, Vertic, Aquic Arenic, Aquic, Arenic, Petrocalcic, Leptic, Haplargdic, Aridic, Mollic, Typic.				
		Kandiustalfs .....	Grossarenic, Aquic Arenic, Plinthic, Aquic, Arenic Aridic, Arenic, Aridic, Udic, Rhodic, Typic.				
		Kanhaplustalfs ...	Lithic, Aquic, Aridic, Udic, Rhodic, Typic.				



NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Paleudalfs (continued) .....	Fragiaquic, Plinthaquic, Glossaquic, Albaquic, Aquic, Anthraquic, Oxyaquic, Fragic, Arenic Plinthic, Grossarenic Plinthic, Lamellic, Psammentic, Arenic, Grossarenic, Plinthic, Glossic, Rhodic, Mollic, Typic.				Glossaquic, Aquultic, Aquollic, Aquic, Anthraquic, Oxyaquic, Fragic, Lamellic, Psammentic, Arenic, Glossic, Inceptic, Ultic, Mollic, Typic.
		Rhodudalfs .....	Typic.	Andisols .....	Aquands .....	Cryaquands .....	Lithic, Histic, Thaptic, Typic.
		Glossudalfs .....	Aquertic, Oxyaquic Vertic, Vertic, Aquandic, Andic, Vitrandic, Fragiaquic, Aquic, Oxyaquic, Fragic, Arenic, Haplic, Typic.			Placaquands .....	Lithic, Duric Histic, Duric, Histic, Thaptic, Typic.
		Hapludalfs .....	Lithic, Aquertic Chromic, Aquertic, Oxyaquic Vertic, Chromic Vertic, Vertic, Andic, Vitrandic, Fragiaquic, Fragic Oxyaquic, Aquic Arenic, Albaquultic, Albaquic,			Duraquands .....	Histic, Acraquoxic, Thaptic, Typic.
						Vitraquands .....	Lithic, Duric, Histic, Thaptic, Typic.
						Melanaquands ..	Lithic, Acraquoxic, Hydric Pachic, Hydric, Pachic, Thaptic, Typic.
						Epiaquands .....	Duric, Histic, Alic, Hydric, Thaptic, Typic.
						Endoaquands ....	Lithic, Duric,

NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Endoaquands (continued) .....	Histic, Alic, Hydric, Thaptic, Typic.				Typic.
	Cryands .....	Duricryands .....	Aquic, Typic.	Xerands .....	Vitrixerands .....		Lithic, Aquic, Thaptic, Alfic Humic, Ultic, Alfic, Humic, Typic.
	Hydrocryands ....		Lithic, Placic, Aquic, Thaptic, Typic.		Melanoxerands ..		Pachic, Typic.
	Melanocryands ..		Lithic, Vitric, Typic.		Haploxerands .....		Lithic, Aquic, Thaptic, Calcic, Ultic, Alfic Humic, Alfic, Humic, Typic.
	Fulvicryands .....		Lithic, Pachic, Vitric, Typic.				
	Vitricryands .....		Lithic, Aquic, Oxyaquic, Thaptic, Humic Xeric, Xeric, Ultic, Alfic, Humic, Typic.	Vitrands .....	Ustivitrands .....		Lithic, Aquic, Thaptic, Calcic, Humic, Typic.
	Haplocryands .....		Lithic, Alic, Aquic, Acrudoxic, Vitric, Thaptic, Xeric, Typic.		Udivitrands .....		Lithic, Aquic, Thaptic, Ultic, Alfic, Humic, Typic.
	Torrands ....	Duritorrands .....	Petrocalcic, Vitric, Typic.	Ustands .....	Durustands .....		Aquic, Thaptic, Humic, Typic.
	Vitritorrands .....		Lithic, Duric, Aquic, Calcic, Typic.		Haplustands .....		Lithic, Aquic, Dystric Vitric, Vitric, Pachic, Thaptic, Calcic, Dystric, Oxic, Ultic, Alfic, Humic,
	Haplotorrands ....		Lithic, Duric, Calcic,				

NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Haplustands (continued) .....	Typic.				Anthraquic, Aquic Duric, Duric, Alic, Aquic, Acrudoxic Hydric, Acrudoxic
	Udands .....	Placudands .....	Lithic, Aquic, Acrudoxic, Hydric, Typic.				Hydric, Acrudoxic Thaptic, Acrudoxic Ultic, Acrudoxic, Vitric, Hydric Thaptic, Hydric, Eutric Thaptic, Thaptic, Eutric, Oxic, Ultic, Alfic, Typic.
		Durudands .....	Aquic, Acrudoxic, Hydric, Pachic, Typic.				
		Melanudands ....	Lithic, Anthraquic, Aquic, Acrudoxic Vitric, Acrudoxic Hydric, Acrudoxic, Pachic Vitric, Vitric, Hydric Pachic, Pachic, Hydric, Thaptic, Ultic, Eutric, Typic.	Aridisols .....	Cryids .....	Salicryids .....	Aquic, Typic. Petrocryids .....
		Hydrudands .....	Lithic, Aquic, Acrudoxic Thaptic, Acrudoxic, Thaptic, Eutric, Ultic, Typic.				Xereptic, Duric Xeric, Duric, Petrogypsic, Xeric, Ustic, Typic.
		Fulvudands .....	Eutric Lithic, Lithic, Aquic, Hydric, Acrudoxic, Ultic, Eutric Pachic, Eutric, Pachic, Thaptic, Typic.			Gypsicryids .....	Calcic, Vitrixerandic, Vitrandic, Typic.
		Hapludands .....	Lithic,			Argicryids .....	Lithic, Vertic, Natric, Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.
						Calcicryids .....	Lithic, Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.
						Haplocryids .....	Lithic,

NCSS Newsletter

Names of Orders, Suborders, Great Groups, and Subgroups--Continued

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Haplocryids (continued) .....	Vertic, Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.			Natrigypsids .....	Xeric, Ustic, Typic. Lithic, Vertic, Petronodic, Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.
Salids .....	Aquisalids .....	Gypsic, Calcic, Typic.				Argigypsids .....	Lithic, Vertic, Calcic, Petronodic, Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.
	Haplosalids .....	Duric, Petrogypsic, Gypsic, Calcic, Typic.				Calcigypsids .....	Lithic, Petronodic, Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.
Durids .....	Natridurids .....	Vertic, Aquic Natrargidic, Aquic, Natraxeralfic, Natrargidic, Vitrixerandic, Vitrandic, Xeric, Typic.				Haplogypsids .....	Lithic, Leptic, Sodic, Petronodic, Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.
	Argidurids .....	Vertic, Aquic, Abruptic Xeric, Abruptic, Haploxeralfic, Argidic, Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.				Argids .....	Petroargids .....
	Haplodurids .....	Aquicambidic, Aquic, Xereptic, Cambidic, Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.					Petrogypsic Ustic, Petrogypsic, Duric Xeric, Duric, Natric, Xeric, Ustic, Typic.
Gypsids .....	Petrogypsids .....	Petrocalcic, Calcic, Vitrixerandic, Vitrandic,				Natrargids .....	Lithic Xeric, Lithic Ustic, Lithic, Vertic, Aquic,



NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
	Natrargids (continued) .....		Durinodic Xeric, Durinodic, Petronodic, Glossic Ustic, Haplic Ustic, Haploxeralfic, Haplic, Vitrixerandic, Vitrandic, Xeric, Ustic, Glossic, Typic.				Xeric, Ustic, Typic.
					Haplargids .....		Lithic Ruptic- Entic, Lithic Xeric, Lithic Ustic, Lithic, Xerertic, Ustertic, Vertic, Aquic, Arenic Ustic, Arenic, Durinodic Xeric, Durinodic, Petronodic Ustic, Petronodic, Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.
	Paleargids .....	Vertic, Aquic, Arenic Ustic, Arenic, Calcic, Durinodic Xeric, Durinodic, Petronodic Ustic, Petronodic, Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.					
	Gypsiargids .....	Aquic, Durinodic, Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.					
	Calciargids .....	Lithic, Xerertic, Ustertic, Vertic, Aquic, Arenic Ustic, Arenic, Durinodic Xeric, Durinodic, Petronodic Xeric, Petronodic Ustic, Petronodic, Vitrixerandic, Vitrandic,					
					Calcids .....	Petrocalcids .....	Aquic, Natric, Xeralfic, Ustalfic, Argic, Calcic Lithic, Calcic, Xeric, Ustic, Typic.
							Haplocalcids .... Lithic Xeric, Lithic Ustic, Lithic, Vertic, Aquic Durinodic, Aquic, Duric Xeric, Duric, Durinodic Xeric, Durinodic, Petronodic Xeric, Petronodic Ustic, Petronodic, Sodic Xeric, Sodic Ustic, Sodic,

NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup		
		Haplocalcids (continued) .....	Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.			Hydraquents .....	Sulfic, Sodic, Thaptic-Histic, Typic.		
	Cambids .....	Aquicambids .....	Sodic, Durinodic Xeric, Durinodic, Petronodic, Vitrixerandic, Vitrandic, Fluventic, Xeric, Ustic, Typic.			Cryaquents .....	Aquandic, Typic.		
		Petrocambids ....	Sodic, Vitrixerandic, Vitrandic, Xeric, Ustic, Typic.			Psammaquents ...	Lithic, Sodic, Spodic, Humaqueptic, Mollic, Typic.		
		Anthracambids ...	Typic.			Fluvaquents .....	Sulfic, Vertic, Thapto-Histic, Aquandic, Aeric, Humaqueptic, Mollic, Typic.		
		Haplocambids ....	Lithic Xeric, Lithic Ustic, Lithic, Xerertic, Ustertic, Vertic, Durinodic Xeric, Durinodic, Petronodic Xeric, Petronodic Ustic, Petronodic, Sodic Xeric, Sodic Ustic, Sodic, Vitrixerandic, Vitrandic, Xerifluventic, Ustifluventic, Fluventic, Xeric, Ustic, Typic.			Epiaquents .....	Aeric, Humaqueptic, Mollic, Typic.		
		Entisols .....	Aquents .....			Endoaquents .....	Sulfic, Lithic, Sodic, Aeric, Humaqueptic, Mollic, Typic.		
			Sulfaquents .....			Arents .....	Ustarents .....	Haplic.	
			Haplic, Histic, Thapto-Histic, Typic.				Xerarents .....	Sodic, Duric, Alfic, Haplic.	
							Torriarents .....	Sodic, Duric, Haplic.	
							Udarents .....	Alfic, Ultic, Mollic, Haplic.	
							Psamments ..	Cryo- psamments .....	Lithic, Aquic, Oxyaquic, Vitrandic, Spodic,

NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

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		Cryopsamments (continued) .....	Lamellic, Typic.			Plaggeptic, Typic.	
		Torri- psamments .....	Lithic, Vitrandic, Haploduridic, Ustic, Xeric, Rhodic, Typic.			Andic, Vitrandic, Aquic, Oxyaquic, Mollic, Typic.	
		Quartzi- psamments .....	Lithic, Aquodic, Aquic, Oxyaquic, Ustoxic, Udoxic, Plinthic, Lamellic Ustic, Lamellic, Ustic, Xeric, Spodic, Typic.			Xerofluvents .... Vertic, Aquandic, Andic, Vitrandic, Aquic, Oxyaquic, Durinodic, Mollic, Typic.	
		Usti- psamments .....	Lithic, Aquic, Oxyaquic, Aridic, Lamellic, Rhodic, Typic.			Ustifluvents .....	Aquertic, Torrertic, Vertic, Anthraquic, Aquic, Oxyaquic, Aridic, Udic, Mollic, Typic.
		Xero- psamments .....	Lithic, Aquic Durinodic, Aquic, Oxyaquic, Vitrandic, Durinodic, Lamellic, Dystric, Typic.			Torrifluvents ....	Ustertic, Vertic, Vitrixerandic, Vitrandic, Aquic, Oxyaquic, Duric Xeric, Duric, Ustic, Xeric, Anthropic, Typic.
		Udi- psamments .....	Lithic, Aquic, Oxyaquic, Spodic, Lamellic,			Udifluvents .....	Aquertic, Vertic, Andic, Vitrandic, Aquic, Oxyaquic, Mollic, Typic.
						Orthents .....	Cryorthents ---- Lithic, Vitrandic,

NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Cryorthents (continued) .....	Aquic, Oxyaquic, Lamellic, Typic.				Sapric, Typic.
		Torriorthents .....	Lithic Ustic, Lithic Xeric, Lithic, Xerertic, Ustertic, Vertic, Vitrandic, Aquic, Oxyaquic, Duric, Ustic, Xeric, Typic.			Fibristels .....	Lithic, Terric, Fluvaquentic, Sphagnic, Typic.
		Xerorthents .....	Lithic, Vitrandic, Aquic, Oxyaquic, Durinodic, Dystric, Typic.			Hemistels .....	Lithic, Terric, Fluvaquentic, Typic.
		Ustorthents .....	Aridic Lithic, Lithic, Torrertic, Vertic, Anthraquic, Aquic, Oxyaquic, Durinodic, Vitritorrandic, Vitrandic, Aridic, Udic, Vermic, Typic.			Sapristels .....	Lithic, Terric, Fluvaquentic, Typic.
		Udorthents .....	Lithic, Vitrandic, Aquic, Oxyaquic, Vermic, Typic.			Turbels .....	Histoturbels .....
		Gelisols .....	Histels .....				Lithic, Glacic, Ruptic, Typic.
			Folistels .....			Aquaturbels .....	Lithic, Glacic, Sulfuric, Ruptic-Histic, Psammentic, Typic.
			Glacistels .....			Anhyturbels .....	Lithic, Glacic, Petrogypsic, Gypsic, Nitric, Salic, Calcic, Typic.
						Molliturbels .....	Lithic, Glacic, Vertic, Andic, Vitrandic, Cumulic, Aquic, Typic.
						Umbristurbels ....	Lithic, Glacic, Vertic, Andic, Vitrandic, Cumulic, Aquic, Typic.

NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Psammiturbels ..	Lithic, Glacic, Spodic, Typic.			Psammiorthels ..	Lithic, Glacic, Spodic, Typic.
		Haploturbels .....	Lithic, Glacic, Aquic, Typic.			Haplorthels .....	Lithic, Glacic, Aquic, Typic.
Orthels .....	Historthels .....	Lithic, Glacic, Ruptic, Typic.		Histosols .....	Folists .....	Cryofolists .....	Lithic, Typic.
	Aquorthels .....	Lithic, Glacic, Sulfuric, Ruptic-Histic, Andic, Vitrandic, Salic, Psammentic, Typic.				Torrifolists .....	Lithic, Typic.
	Anhyorthels .....	Lithic, Glacic, Petrogypsic, Gypsic, Nitric, Salic, Calcic, Typic.				Ustifolists .....	Lithic, Typic.
	Molliorthels .....	Lithic, Glacic, Vertic, Andic, Vitrandic, Cumulic, Aquic, Typic.				Udifolists .....	Lithic, Typic.
	Umbriorthels ....	Lithic, Glacic, Vertic, Andic, Vitrandic, Cumulic, Aquic, Typic.				Fibrists .....	Cryofibrists .....
	Argiorthels .....	Lithic, Glacic, Natric, Typic.					Hydric, Lithic, Terric, Fluvaquentic, Sphagnic, Typic.
						Sphagno- fibrists .....	Hydric, Lithic, Limnic, Terric, Fluvaquentic, Hemic, Typic.
						Haplofibrists .....	Hydric, Lithic, Limnic, Terric, Fluvaquentic, Hemic, Typic.
						Sapristis .....	Sulfosapristis .....
							Typic.
							Terric, Typic.
							Lithic, Terric, Fluvaquentic, Typic.
							Lithic, Limnic, Halic Terric, Halic, Terric,

NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Haplosaprists (continued) .....	Fluvaquentic, Hemic, Typic.			Humaquepts .....	Hydraquentic, Histic, Aquandic, Cumulic, Fluvaquentic, Aeric, Typic.
	Hemists .....	Sulfohemists .....	Typic.				
		Sulfihemists .....	Terric, Typic.				
		Luvihemists .....	Typic.			Epiaquepts .....	Vertic, Aquandic, Fluvaquentic, Fragic, Aeric, Humic, Mollic, Typic.
		Cryochemists .....	Hydric, Lithic, Terric, Fluvaquentic, Typic.				
		Haplohemists ....	Hydric, Lithic, Limnic, Terric, Fluvaquentic, Fibric, Sapric, Typic.			Endoaquepts .....	Sulfic, Lithic, Vertic, Aquandic, Fluvaquentic, Fragic, Aeric, Humic, Mollic, Typic.
Inceptisols ....	Aquepts .....	Sulfaquepts .....	Salidic, Hydraquentic, Typic.				
		Petraquepts .....	Histic Placic, Placic, Plinthic, Typic.			Anthrepts .....	Plagg- anthrepts .....
		Halaquepts .....	Vertic, Aquandic, Duric, Aeric, Typic.				Typic.
		Fragiaquepts .....	Aeric, Humic, Typic.			Haplanthrepts ...	Typic.
		Cryaquepts .....	Sulfic, Histic Lithic, Lithic, Vertic, Histic, Aquandic, Fluvaquentic, Aeric Humic, Aeric, Humic, Typic.			Cryepts .....	Eutrocryepts .....
		Vermaquepts .....	Sodic, Typic.				Humic Lithic, Lithic, Andic, Vitrandic, Aquic, Oxyaquic, Lamellic, Xeric, Ustic, Humic, Typic.
						Dystrocryepts ...	Humic Lithic, Lithic, Andic, Vitrandic, Aquic, Oxyaquic, Lamellic, Spodic, Xeric, Ustic,

NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup	
		Dystrocryepts (continued) .....	Humic, Typic.				Entic, Typic.	
	Ustepts .....	Durustepts .....	Typic.			Calcixerepts .....	Lithic, Vertic, Petrocalcic, Sodic, Vitrandic, Aquic, Typic.	
		Calciustepts .....	Lithic Petrocalcic, Lithic, Torrertic, Vertic, Petrocalcic, Gypsic, Aquic, Aridic, Udic, Typic.			Fragixerepts .....	Andic, Vitrandic, Aquic, Humic, Typic.	
		Dystrustepts .....	Lithic, Andic, Vitrandic, Aquic, Fluventic, Oxic, Humic, Typic.			Dystroxerepts ...	Humic Lithic, Lithic, Aquandic, Andic, Vitrandic, Fragiaquic, Fluvaquentic, Aquic, Oxyaquic, Fragic, Fluventic Humic, Fluventic, Humic, Typic.	
		Haplustepts .....	Aridic Lithic, Lithic, Udertic, Torrertic, Vertic, Andic, Vitrandic, Anthraquic, Aquic, Oxyaquic, Oxic, Lamellic, Torrifluventic, Udifluventic, Fluventic, Gypsic, Haplocalcidic, Calcic Udic, Calcic, Aridic, Dystric, Udic, Typic.			Haploxerepts ....	Humic Lithic, Lithic, Vertic, Aquandic, Andic, Vitrandic, Gypsic, Aquic, Lamellic, Fragic, Fluventic, Calcic, Humic, Typic.	
		Xerepts .....	Durixerepts .....			Udepts .....	Sulfudepts .....	Typic.
			Aquandic, Andic, Vitrandic, Aquic,			Durudepts .....	Aquandic, Andic, Vitrandic, Aquic, Typic.	
						Fragiudepts .....	Andic,	

NCSS Newsletter

Names of Orders, Suborders, Great Groups, and Subgroups--Continued

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup	
		Fragiudepts (continued) .....	Vitrantic, Aquic, Humic, Typic.				Ruptic-Ultic, Typic.	
		Eutrudepts .....	Humic Lithic, Lithic, Aquertic, Vertic, Andic, Vitrantic, Anthraquic, Fragiaquic, Fluvaquentic, Aquic Dystric, Aquic, Oxyaquic, Fragic, Lamellic, Dystric Fluventic, Fluventic, Arenic, Dystric, Rendollic, Humic, Ruptic-Alfic, Typic.			Natralbolls .....	Leptic, Typic.	
		Dystrudepts .....	Humic Lithic, Lithic, Vertic, Aquandic, Andic, Vitrantic, Fragiaquic, Fluvaquentic, Aquic Humic, Aquic, Oxyaquic, Fragic, Lamellic, Humic Psammentic, Fluventic Humic, Fluventic, Spodic, Oxic, Humic Pachic, Humic, Ruptic-Alfic,			Argialbolls .....	Xerertic, Vertic, Argiaquic Xeric, Argiaquic, Xeric, Aquandic, Typic.	
						Aquolls .....	Cryaquolls .....	Vertic, Histic, Thapto-Histic, Aquandic, Argic, Calcic, Cumulic, Typic.
						Duraquolls .....	Natric, Vertic, Argic, Typic.	
						Natraquolls .....	Vertic, Typic.	
						Calciaquolls .....	Petrocalcic, Aeric, Typic.	
						Argiaquolls .....	Arenic, Grossarenic, Vertic, Abruptic, Typic.	
						Epiaquolls .....	Cumulic Vertic, Fluvaquentic Vertic, Vertic, Histic, Thapto-Histic, Aquandic, Duric, Cumulic, Fluvaquentic, Typic.	
						Endoaquolls .....	Lithic, Cumulic Vertic, Fluvaquentic Vertic, Vertic,	





NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Calcixerolls (continued) .....	Oxyaquic, Pachic, Vitrandic, Aridic, Vermic, Typic.				Torriorthentic, Aridic, Duric, Psammentic, Fluventic, Vermic, Calcic, Entic Ultic,
		Argixerolls .....	Lithic Ultic, Lithic, Torrertic, Vertic, Andic, Vitrirrandic, Vitrandic, Aquultic, Aquic, Oxyaquic, Alfic, Calcic Pachic, Pachic Ultic, Pachic, Argiduridic, Duric, Calciargidic, Aridic, Calcic, Ultic, Typic.				Ustolls .....
						Durustolls .....	Natric, Haploduridic, Argiduridic, Entic, Haplic, Typic.
						Natrustolls .....	Leptic Torrertic, Torrertic, Leptic Vertic, Glossic Vertic, Vertic, Aridic Leptic, Leptic, Aquic, Aridic, Duric, Glossic, Typic.
		Haploxerolls .....	Lithic Ultic, Lithic, Torrertic, Vertic, Vitrirrandic, Vitrandic, Aquic Cumulic, Cumulic Ultic, Cumulic, Fluvaquentic, Aquic Duric, Aquultic, Aquic, Oxyaquic, Calcic Pachic, Pachic Ultic, Pachic, Torrifluventic, Duridic, Calcidic, Torripsammentic,			Calciustolls .....	Salidic, Lithic Petrocalcic, Lithic, Torrertic, Udertic, Vertic, Petrocalcic, Gypsic, Pachic, Aquic, Oxyaquic, Aridic, Udic, Typic.
						Paleustolls .....	Torrertic, Udertic, Vertic, Pachic, Aquic,

NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
	Paleustolls (continued) .....	Petrocalcic, Calcidic, Aridic, Udic, Calcic, Entic, Typic.					Oxyaquic, Torrifluentic, Torriorthentic, Aridic, Fluentic, Duric, Udorthentic, Udic, Entic, Typic.
	Argiustolls .....	Aridic Lithic, Alfic Lithic, Lithic, Torreptic, Udertic, Vertic, Andic, Vitritorrandic, Vitrandic, Pachic, Aquic, Oxyaquic, Alfic, Calcidic, Aridic, Udic, Duric, Typic.		Udolls .....	Natrudolls .....	Petrocalcic, Leptic Vertic, Glossic Vertic, Vertic, Leptic, Glossic, Calcic, Typic.	
	Vermustolls .....	Lithic, Aquic, Pachic, Entic, Typic.			Calciudolls .....	Lithic, Vertic, Aquic, Fluentic, Typic.	
	Haplustolls .....	Salidic, Ruptic-Lithic, Lithic, Torreptic, Pachic Udertic, Udertic, Vertic, Torroxic, Oxic, Andic, Vitritorrandic, Vitrandic, Aquic Cumulic, Cumulic, Anthraquic, Fluvaquentic, Pachic, Aquic,			Paleudolls .....	Vertic, Petrocalcic, Aquic, Pachic, Oxyaquic, Calcic, Typic.	
					Argiudolls .....	Lithic, Aquertic, Oxyaquic Vertic, Pachic Vertic, Alfic Vertic, Vertic, Andic, Vitrandic, Aquic, Pachic, Oxyaquic, Lamellic, Psammentic, Arenic, Abruptic, Alfic, Oxic, Calcic, Typic.	

NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Vermudolls .....	Lithic, Haplic, Typic.				Aquic Lithic, Lithic, Anionic Aquic,
		Hapludolls .....	Lithic, Aquertic, Vertic, Andic, Vitrandic, Aquic Cumulic, Cumulic, Fluvaquentic, Aquic, Pachic, Oxyaquic, Fluventic, Vermic, Calcic, Entic, Typic.				Anionic, Plinthic, Aquic, Eutric, Humic Rhodic, Humic Xanthic, Humic, Rhodic, Xanthic, Typic.
						Eustrustox .....	Aquic Petroferric, Petroferric, Aquic Lithic, Lithic, Plinthaquic, Plinthic, Aquic, Kandiustalfic, Humic Inceptic, Inceptic, Humic Rhodic, Humic Xanthic, Humic, Rhodic, Xanthic, Typic.
Oxisols .....	Aquox .....	Acraquox .....	Plinthic, Aeric, Typic.				
		Plinthaquox .....	Aeric, Typic.				
		Eutraquox .....	Histic, Plinthic, Aeric, Humic, Typic.				
		Haplaquox .....	Histic, Plinthic, Aeric, Humic, Typic.			Kandiustox .....	Aquic Petroferric, Petroferric, Aquic Lithic, Lithic, Plinthaquic, Plinthic, Aquic, Humic Rhodic, Humic Xanthic, Humic, Rhodic, Xanthic, Typic.
		Torrox .....	Acrotorrox .....				
			Petroferric, Lithic, Typic.				
		Eutrotorrox .....	Petroferric, Lithic, Typic.				
		Haplotorrox .....	Petroferric, Lithic, Typic.				
		Ustox .....	Sombriustox .....				
			Petroferric, Lithic, Humic, Typic.			Haplustox .....	Aquic Petroferric, Petroferric, Aquic Lithic, Lithic, Plinthaquic, Plinthic, Aqueptic,
		Acrustox .....	Aquic Petroferric, Petroferric,				

NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Haplustox (continued) .....	Aquic, Oxyaquic, Inceptic, Humic Rhodic, Humic Xanthic, Humic, Rhodic, Xanthic, Typic.				Aquic, Andic, Humic Rhodic, Humic Xanthic, Humic, Rhodic, Xanthic, Typic.
	Perox .....	Sombriperox .....	Petroferric, Lithic, Humic, Typic.			Haploperox .....	Aquic Petroferric, Petroferric, Aquic Lithic, Lithic, Plinthaquic, Plinthic, Aquic, Andic, Humic Rhodic, Humic Xanthic, Humic, Rhodic, Xanthic, Typic.
		Acroperox .....	Aquic Petroferric, Petroferric, Aquic Lithic, Lithic, Anionic, Plinthic, Aquic, Humic Rhodic, Humic Xanthic, Humic, Rhodic, Xanthic, Typic.				
		Eutroperox .....	Aquic Petroferric, Petroferric, Aquic Lithic, Lithic, Plinthaquic, Plinthic, Aquic, Kandiudalfic, Humic Inceptic, Inceptic, Humic Rhodic, Humic Xanthic, Humic, Rhodic, Xanthic, Typic.			Udox .....	Sombriudox .....
		Kandiperox .....	Aquic Petroferric, Petroferric, Aquic Lithic, Lithic, Plinthaquic, Plinthic,				Petroferric, Lithic, Humic, Typic.
						Acrudox .....	Aquic Petroferric, Petroferric, Aquic Lithic, Lithic, Anionic Aquic, Anionic, Plinthic, Aquic, Eutric, Humic Rhodic, Humic Xanthic, Humic, Rhodic, Xanthic, Typic.
						Eutradox .....	Aquic Petroferric, Petroferric, Aquic Lithic, Lithic, Plinthaquic, Plinthic, Aquic, Kandiudalfic,

NCSS Newsletter

Names of Orders, Suborders, Great Groups, and Subgroups--Continued

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
	Eutrudox (continued) .....		Humic Inceptic, Inceptic, Humic Rhodic, Humic Xanthic, Humic, Rhodic, Xanthic, Typic.				Arenic Umbric, Arenic, Grossarenic, Alfic, Ultic, Aeric, Typic.
	Kandiudox .....		Aquic Petroferric, Petroferric, Aquic Lithic, Lithic, Plinthaquic, Plinthic, Aquic, Andic, Humic Rhodic, Humic Xanthic, Humic, Rhodic, Xanthic, Typic.			Fragiaquods .....	Histic, Plaggeptic, Argic, Typic.
	Hapludox .....		Aquic Petroferric, Petroferric, Aquic Lithic, Lithic, Plinthaquic, Plinthic, Aquic, Inceptic, Andic, Humic Rhodic, Humic Xanthic, Humic, Rhodic, Xanthic, Typic.			Placaquods .....	Andic, Typic.
	Spodosols .....	Aquods .....	Cryaquods .....			Duraquods .....	Histic, Andic, Typic.
			Lithic, Placic, Duric, Andic, Entic, Typic.			Epiaquods .....	Lithic, Histic, Andic, Alfic, Ultic, Umbric, Typic.
			Alaquods .....			Endoaquods .....	Lithic, Histic, Andic, Argic, Umbric, Typic.
			Lithic, Duric, Histic, Alfic Arenic, Arenic Ultic,			Cryods .....	Placocryods .....
							Andic, Humic, Typic.
						Duricryods .....	Aquandic, Andic, Aquic, Oxyaquic, Humic, Typic.
						Humicryods .....	Lithic, Aquandic, Andic, Aquic, Oxyaquic, Typic.
						Haplocryods .....	Lithic, Aquandic, Andic, Aquic, Oxyaquic,

NCSS Newsletter

Names of Orders, Suborders, Great Groups, and Subgroups--Continued

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Haplocryods (continued) .....	Entic, Typic.				Typic.
	Humods .....	Placohumods ....	Andic, Typic.	Ultisols .....	Aquults .....	Plinthaquults .....	Kandic, Typic.
		Durihumods .....	Andic, Typic.			Fragiaquults .....	Aeric, Plinthic, Umbric, Typic.
		Fragihumods .....	Typic.			Albaquults .....	Vertic, Kandic, Aeric, Typic.
		Haplohumods ...	Lithic, Andic, Plaggeptic, Typic.			Kandiaquults ....	Acraquoxic, Arenic Plinthic, Arenic Umbric, Arenic, Grossarenic, Plinthic, Aeric, Umbric, Typic.
	Orthods .....	Placorthods .....	Typic.				
		Durorthods .....	Andic, Typic.				
		Fragiorthods .....	Aquic, Alfic Oxyaquic, Oxyaquic, Plaggeptic, Alfic, Ultic, Entic, Typic.			Kanhapl- aquults .....	Aquandic, Plinthic, Aeric Umbric, Aeric, Umbric, Typic.
		Alorthods .....	Oxyaquic, Arenic Ultic, Arenic, Entic Grossarenic, Entic, Grossarenic, Plaggeptic, Alfic, Ultic, Typic.			Paleaquults .....	Vertic, Arenic Plinthic, Arenic Umbric, Arenic, Grossarenic, Plinthic, Aeric, Umbric, Typic.
		Haplorthods .....	Entic Lithic, Lithic, Fragiaquic, Aqualfic, Aquentic, Aquic, Alfic Oxyaquic, Oxyaquic Ultic, Fragic, Lamellic, Oxyaquic, Andic, Alfic, Ultic, Entic,			Umbraquults ....	Plinthic, Typic.
						Epiaquults .....	Vertic, Aeric Fragic, Arenic, Grossarenic, Fragic, Aeric, Typic.
						Endoaquults .....	Arenic, Grossarenic, Aeric, Typic.

NCSS Newsletter

Names of Orders, Suborders, Great Groups, and Subgroups--Continued

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
	Humults .....	Sombri-					Humic,
		humults .....	Typic.				Typic.
		Plintho-			Kandiudults .....	Arenic	
		humults .....	Typic.				Plinthaquic,
		Kandihumults ...	Andic				Aquic Arenic,
			Ombroaquic,				Arenic Plinthic,
			Ustandic,				Arenic Rhodic,
			Andic,				Arenic,
			Aquic,				Grossarenic
			Ombroaquic,				Plinthic,
			Plinthic,				Grossarenic,
			Ustic,				Acrudoxic
			Xeric,				Plinthic,
			Anthropic,				Acrudoxic,
			Typic.				Plinthaquic,
		Kanhaplo-					Aquandic,
		humults .....	Lithic,				Andic,
			Ustandic,				Aquic,
			Andic,				Plinthic,
			Aquic,				Ombroaquic,
			Ombroaquic,				Oxyaquic,
			Ustic,				Sombric,
			Xeric,				Rhodic,
			Anthropic,				Typic.
			Typic.		Kanhapludults ...	Lithic,	
		Palehumults .....	Aquandic,				Fragiaquic,
			Andic,				Arenic Plinthic,
			Aquic,				Arenic,
			Plinthic,				Acrudoxic,
			Oxyaquic,				Plinthaquic,
			Ustic,				Andic,
			Xeric,				Aquic,
			Typic.				Ombroaquic,
			Typic.				Oxyaquic,
		Haplohumults ...	Lithic,				Fragic,
			Aquandic,				Plinthic,
			Aquic,				Rhodic,
			Andic,				Typic.
			Plinthic,				
			Oxyaquic,				Paleudults .....
			Ustic,				Vertic,
			Xeric,				Spodic,
			Typic.				Arenic
			Typic.				Plinthaquic,
		Udults .....	Plinthudults .....				Aquic Arenic,
			Typic.				Plinthaquic,
			Fragiudults .....				Fragiaquic,
			Arenic,				Aquic,
			Plinthaquic,				Anthraquic,
			Glossaquic,				Oxyaquic,
			Aquic,				Lamellic,
			Plinthic,				
			Glossic,				



NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Paleudults (continued) .....	Arenic Plinthic, Psammentic, Grossarenic Plinthic, Plinthic, Arenic Rhodic, Arenic, Grossarenic, Fragic, Rhodic, Typic.				Udandic, Andic, Plinthic, Ombroaquic, Aridic, Udic, Rhodic, Typic.
		Rhodudults .....	Lithic, Psammentic, Typic.			Paleustults .....	Typic.
		Hapludults .....	Lithic Ruptic- Entic, Lithic, Vertic, Fragiaquic, Aquic Arenic, Aquic, Fragic, Oxyaquic, Lamellic, Psammentic, Arenic, Grossarenic, Inceptic, Humic, Typic.			Rhodustults .....	Lithic, Psammentic, Typic.
		Ustults .....	Plinthustults .....			Haplustults .....	Lithic, Petroferric, Aquic, Arenic, Ombroaquic, Plinthic, Kanhaplic, Typic.
		Kandiustults .....	Acrustoxic, Aquic, Arenic Plinthic, Arenic, Udandic, Andic, Plinthic, Aridic, Udic, Rhodic, Typic.			Xerults .....	Palexerults .....
		Kanhapl- ustults .....	Lithic, Acrustoxic, Aquic, Arenic,				Aquandic, Aquic, Andic, Typic.
						Haploxerults .....	Lithic Ruptic- Inceptic, Lithic, Aquic, Andic, Lamellic, Psammentic, Arenic, Grossarenic, Typic.
						Vertisols .....	Aquerts .....
							Salaquerts .....
							Aridic, Ustic, Leptic, Entic, Chromic, Typic.
							Duraquerts .....
							Aridic, Xeric, Ustic, Aeric, Chromic, Typic.
							Natraquerts .....
							Typic.
							Calciaquerts .....
							Aeric, Typic.

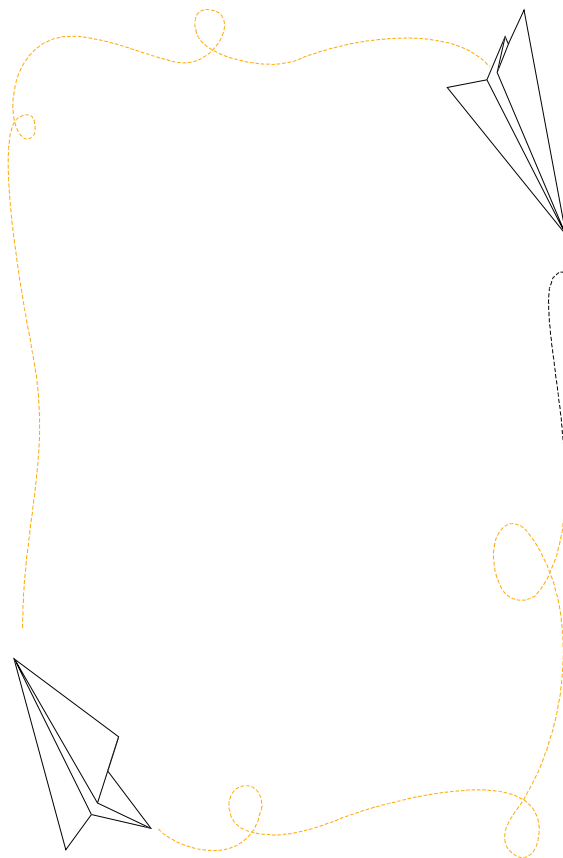
NCSS Newsletter

*Names of Orders, Suborders, Great Groups, and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup	Order	Suborder	Great Group	Subgroup
		Dystraquerts .....	Sulfaqueptic, Aridic, Ustic, Aeric, Leptic, Entic, Chromic, Typic.			Haploxererts .....	Lithic, Halic, Sodic, Aridic, Aquic, Udic, Leptic, Entic, Chromic, Typic.
		Epiaquerts .....	Halic, Sodic, Aridic, Xeric, Ustic, Aeric, Leptic, Entic, Chromic, Typic.			Torrerts .....	Salitorrerts .....
		Endoaquerts .....	Halic, Sodic, Aridic, Xeric, Ustic, Aeric, Leptic, Entic, Chromic, Typic.			Gypsitorrerts .....	Chromic, Typic.
		Cryerts .....	Humicryerts .....			Calcitorrerts .....	Petrocalcic, Leptic, Entic, Chromic, Typic.
		Haplocryerts .....	Sodic, Chromic, Typic.			Haplotorrerts .....	Halic, Sodic, Leptic, Entic, Chromic, Typic.
		Xererts .....	Durixererts .....			Usterts .....	Dystrusterts .....
		Calcixererts .....	Lithic, Aridic, Petrocalcic, Leptic, Entic, Chromic, Typic.			Salusterts .....	Lithic, Sodic, Aquic, Aridic, Leptic, Entic, Chromic, Typic.
						Gypsiusterts .....	Lithic, Halic, Sodic, Aridic,

*Names of Orders, Suborders, Great Groups,  
and Subgroups--Continued*

Order	Suborder	Great Group	Subgroup
		Gypsiusterts (continued) .....	Udic Leptic, Entic, Chromic, Typic.
		Calciusterts .....	Lithic, Halic, Sodic, Petrocalcic, Aridic, Udic, Leptic, Entic, Chromic, Typic.
		Haplusterts .....	Lithic, Halic, Sodic, Petrocalcic, Gpysic, Calcic, Aridic Leptic, Aridic, Leptic Udic, Entic Udic, Chromic Udic, Udic, Leptic, Entic, Chromic, Typic.
	Uderts .....	Dystruderts .....	Aquic, Oxyaquic, Leptic, Entic, Chromic, Typic.
		Hapluderts .....	Lithic, Aquic, Oxyaquic, Leptic, Entic, Chromic, Typic.



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