

LEGEND OF THE SOIL MAP OF THE AMUR RIVER BASIN

Map Scale 1:2500000
SOIL COMPENDIUM

Soil code	Name in English Russian Legend	Soil Name	Name in the Revised legend of the Soil Map of the World FAO-UNESCO, 1990	Name in the World Reference Base for Soil Resources, 1998
SOILS OF TUNDRA				
1	Podburs light tundra	Gelic Podzols (PZi)		Cryosols Haplic (CRha)
2	Podburs tundra (without subdivision)	Ferric Podzols (PZf)		Cryosols Haplic (CRha)
SOILS OF TAIGA AND SOILS OF CONIFEROUS AND BROAD-LEAVED FORESTS				
3	Gleyzems weak-gley peaty-humic taiga	Gelic Gleysols (GLi)		Cryosols Histic (CRhi)
4	Gleyzems peaty-muck taiga	Gelic Gleysols (GLi)		Cryosols Histic (CRhi)
5	Taiga peaty-muck high-humic non-gleyic	Gelic Cambisols (CMi)		Cryosols Histic (CRhi)
6	Podzolics, mostly shallow podzolics	Dystric Podzoluvisols (PDd)		Albeluvisols Haplic (ABha)
7	Podzolic-gleys peat and peaty	Gleyic Podzoluvisols (PDg)		Albeluvisols Histic (ABhi)
9	Sod-pale-podzolics and podzolised brownzems	Eutric Podzoluvisols (PDe)		Albeluvisols Umbric (ABum)
10	Podzolised brownzems (Beijang bleached)	Eutric Podzoluvisols (PDe)		Albeluvisols Umbric (ABum)
11	Sod-pale-podzolics and podzolised brownzems deep-gleyic and gley	Gleyic Podzoluvisols (PDg)		Albeluvisols Gleyic (ABgl)
12	Podzolised brownzems meadow (Beijang bleached meadow)	Gleyic Podzoluvisols (PDg)		Albeluvisols Gleyic (ABgl)
13	Podzolised brownzems gley (Beijang bleached gley)	Gleyic Podzoluvisols (PDg)		Albeluvisols Gleyic (ABgl)
15	Podzols humic-illuvial	Haplic Podzols (PZh)		Podzols Carbic (PZcb)
16	Podzols illuvial-humic-ferruginous (without subdivision)	Haplic Podzols (PZh)		Podzols Haplic (PZha)
17	Podzols dry-peaty	Haplic Podzols (PZh)		Podzols Histic (PZhi)
18	Podzols gley peaty and peat, mostly humic-illuvial	Gleyic Podzols (PZg)		Podzols Gleyic (PZgl)
20	Podburs taiga (without subdivision)	Cambic Podzols (PZb)		Podzols Entic (PZet)
21	Podburs dry-peaty	Cambic Podzols (PZb)		Podzols Histic (PZhi)
22	Podburs ochric	Cambic Podzols (PZb)		Podzols Rustic (PZrs)
23	Brownzems raw-humic illuvial-humic	Dystric Cambisols (CMd)		Cambisols Dystric (CMdy)
24	Brownzems raw-humic	Dystric Cambisols (CMd)		Cambisols Dystric (CMdy)
25	Brownzems raw-humic gley	Gleyic Cambisols (CMg)		Cambisols Gleyic (CMgl)
26	Sod-brownzems acid (Grayed and albic browns coniferous forest)	Dystric Cambisols (CMd)		Umbrisols Haplic (UMha)
27	Sod-brownzems weakly-unsaturated and saturated (Browns coniferous forest)	Eutric Cambisols (CMe)		Cambisols Eutric (CMeu)
28	Sod-brownzems gleyic and gley	Gleyic Cambisols (CMg)		Cambisols Gleyic (CMgl)
29	Sod-taiga deep-permafrost (including residual-calcareous)	Eutric-Gelic Cambisols (CMe-i)		Cambisols Eutric-Gelic (CMeu-ge)
30	Sod-calcareouses (including leached and podzolised)	Rendzic Leptosols (LPk)		Leptosols Rendzic (LPrz)
31	Volcanics ash typical	Haplic Andosols (ANh)		Andosols Haplic (ANha)

32	Dark volcanics ash	Umbric Andosols (ANu)	Andosols Umbric (ANum)
33	Volcanics ash on basaltic rock	Mollic Andosols (ANm)	Andosols Mollic (ANmo)
SOILS OF BROAD-LEAVED FORESTS AND WOODED STEPPE			
34	Brownzems acid	Dystric Cambisols (CMd)	Cambisols Dystric (CMdy)
35	Brownzems acid podzolised	Dystric Cambisols (CMd)	Cambisols Dystric (CMdy)
36	Brownzems weakly-unsaturated (Brown earths)	Eutric Cambisols (CMe)	Cambisols Eutric (CMeu)
37	Brownzems weakly-unsaturated podzolised	Eutric Cambisols (CMe)	Cambisols Eutric (CMeu)
38	Brownzems gleyic and gley	Gleyic Cambisols (CMg)	Cambisols Gleyic (CMgl)
39	Dark brownzems	Eutric Cambisols (CMe)	Umbrisols Haplic (UMha)
40	Dark brownzems grayed	Dystric Cambisols (CMd)	Umbrisols Haplic (UMha)
41	Dark brownzems albic	Dystric Cambisols (CMd)	Umbrisols Albic (UMab)
42	Dark brownzems meadow	Haplic Cambisols (CMh)	Umbrisols Haplic (UMha)
43	Dark brownzems gley	Gleyic Cambisols (CMg)	Umbrisols Gleyic (UMgl)
44	Dark brownzem-like	Haplic Cambisols (CMh)	Umbrisols Haplic (UMha)
46	Grey forests	Haplic Greyzems (GRh)	Luvisols Albic (LVab)
47	Greys forest non-podzolised	Haplic Greyzems (GRh)	Phaeozems Luvic (PHlv)
48	Dark-grey forests	Haplic Greyzems (GRh)	Phaeozems Greyi-Luvic (PHgz-lv)
49	Fine forest sands	Cambic Arenosols (ARb)	Arenosols Protic (ARpr)
50	Meadow-forests deeply frozen	Umbric-Gelic Leptosols (LPu-i)	Umbrisols Gelic (UMge)
SOILS OF STEPPE			
51	Chernozems luvic	Luvic Chernozems (CHl)	Chernozems Luvic (CHlv)
52	Light chernozems	Luvic Phaeozems (PHl)	Phaeozems Luvic (PHlv)
53	Chernozems deeply-effervescing and noncalcareous on sandstones and sands)	Haplic Chernozems (CHh)	Chernozems Chernic (CHch)
54	Chernozems noncalcareous (mostly contactly-meadowish)	Haplic Chernozems (CHh)	Chernozems Chernic (CHch)
55	Chernozems typical	Haplic Chernozems (CHh)	Chernozems Chernic (CHch)
56	Chernozems calcareous	Calcic Chernozems (CHk)	Chernozems Calcic (CHcc)
57	Chernozems meal-calcareous	Calcic Chernozems (CHk)	Chernozems Calcic (CHcc)
58	Chernozems meal-calcareous, including leached, typical, ordinary, southern (chernozems washed)	Calcic Chernozems (CHk)	Chernozems Calcic (CHcc)
59	Chernozems meal-calcareous contactly-meadowish	Haplic Chernozems (CHh)	Chernozems Haplic (CHha)
60	Chernozems meal-calcareous shallow	Haplic Chernozems (CHh)	Chernozems Haplic (CHha)
61	Chernozems solonchak	Luvic Chernozems (CHl)	Chernozems Luvic (CHlv)
62	Chernozems solonchakous	Luvic Chernozems (CHh)	Chernozems Luvic (CHlv)
64	Meadow-chernozemics (Chernozems meadow)	Haplic Phaeozems (PHh)	Phaeozems Gleyic (PHgl)
65	Meadow-chernozemics deeply frozen	Gelic Phaeozems (PHi)	Phaeozems Gleyic (PHgl)
66	Meadow-chernozem-like "Amur prairie"	Gleyic Phaeozems (PHg)	Phaeozems Gleyic (PHgl)
67	Chernozem-like (Blacks, Chetu)	Haplic Phaeozems (PHh)	Phaeozems Haplic (PHha)

68	Chernozem-likes (Blacks meadow)	Gleyic Phaeozems (PHg)	Phaeozems Gleyic (PHgl)
69	Chernozem-likes (Blacks albic)	Albic Phaeozems (PHa)	Phaeozems Albic (PHab)
70	Chernozem-likes (Blacks surface- gleyed)	Stagnic Phaeozems (PHj)	Phaeozems Stagni-Epigleyic (PHst-pgl)
71	Meadows heating	Haplic Phaeozems (PHh)	Phaeozems Haplic (PHha)
SOILS OF DRY STEPPE			
72	Dark chestnuts	Haplic Kastanozems (KSh)	Kastanozems Haplic (KSha)
74	Dark chestnuts meal-calcareous	Calcic Kastanozems (KSk)	Kastanozems Calcic (KSecc)
75	Dark chestnuts meal-calcareous contactly-meadowish	Calcic Kastanozems (KSk)	Kastanozems Calcic (KSecc)
76	Dark chestnuts meal-calcareous residual-meadow	Calcic Kastanozems (KSk)	Kastanozems Calcic (KSecc)
77	Dark chestnuts meal-calcareous and noncalcareous shallow	Haplic Kastanozems (KSh)	Kastanozems Haplic (KSha)
78	Chestnuts typical	Haplic Kastanozems (KSh)	Kastanozems Haplic (KSha)
79	Chestnuts meal-calcareous shallow	Calcic Kastanozems (KSk)	Kastanozems Calcic (KSecc)
80	Chestnuts meal-calcareous without subdivision (chestnuts leached)	Calcic Kastanozems (KSk)	Kastanozems Calcic (KSecc)
81	Chestnuts weakly developed on loose sands	Mollic Leptosols (LPm)	Leptosols Mollic (PLmo)
82	Chestnuts solonchakous	Luvic Kastanozems (KSl)	Kastanozems Sodic (KSso)
83	Chestnut-likes	Haplic Kastanozems (KSh)	Kastanozems Haplic (KSha)
85	Meadow-chestnuts (Chestnuts meadow)	Haplic Phaeozems (PHh)	Phaeozems Gleyic (PHgl)
86	Meadow-chestnuts meal-calcareous	Calcaric Phaeozems (PHc)	Phaeozems Calcaric-Gleyic (PHca-gl)
87	Meadow-chestnuts meal-calcareous heating	Calcaric Phaeozems (PHc)	Phaeozems Calcaric (PHca)
89	Sands aeolian grassland	Haplic Arenosoils (ARh)	Arenosoils Haplic (ARha)
90	Sands aeolian meadow	Haplic Arenosoils (ARh)	Arenosoils Haplic (ARha)
HYDROMORPHIC SOILS			
92	Meadows (without subdivision)	Umbric Gleysols (GLu)	Gleysols Humic (GLhu)
93	Meadows typical	Haplic Phaeozems (PHh)	Phaeozems Haplic (PHha)
94	Meadows calcareous	Calcic Gleysols (GLk)	Phaeozems Calcic (PHcc)
95	Meadows albic	Luvic Phaeozems (PHl)	Phaeozems Luvic (PHlv)
96	Meadows gley	Umbric Gleysols (GLu)	Gleysols Humic (GLhu)
97	Meadows differentiated (including solodic)	Mollic Planosols (PLm)	Planosols Luvic (PLlv)
98	Meadows solonetzic and solonchakous	Mollic Gleysols (GLm)	Gleysols Sodic (GLso)
99	Meadows solonchakous	Mollic Gleysols (GLm)	Gleysols Sodic (GLso)
100	Meadows solonetzic	Mollic Gleysols (GLm)	Gleysols Sodic (GLso)
102	Meadows cryogenic	Gelic Gleysols (GLi)	Gleysols Gelic (GLge)
103	Meadow-boggies (Bogs meadow)	Mollic Gleysols (GLm)	Gleysols Histic (GLhi)
104	Meadow-boggies cryogenic	Gelic Gleysols (GLi)	Gleysols Gelic (GLge)

106	Gleyzems peaty and peat boggy	Dystric Gleysols (GLd)	Gleysols Histic (GLhi)
107	Peats boggy (without subdivision)	Histosols (HS)	Histosols Fibric (HSfi)
108	Bogs typical	Fibric Histosols (HSf)	Histosols Fibric (HSfi)
109	Bogs muck-humic	Terric Histosols (HSs)	Histosols Terric(HStr)
111	Peats high moor	Fibric Histosols (HSf)	Histosols Fibric (HSfi)
112	Peats transitional moor	Terric Histosols (HSs)	Histosols Fibric (HSfi)
113	Peats low moor	Terric Histosols (HSs)	Histosols Sapric (HSsa)
114	Bogs cryogenic	Gelic Histosols (HSi)	Histosols Gelic (HSge)
SALINE SOILS			
115	Solonetz automorphic	Haplic Solonetz (SNh)	Solonetz Humic (SNhu)
116	Solonetz meadow (hydromorphic)	Gleyic Solonetz (SNg)	Solonetz Gleyic (SNGl)
117	Solonetz meadow solonchakous	Gleyic Solonetz (SNg)	Solonetz Gleyic (SNGl)
118	Solonetz steppe	Haplic Solonetz (SNh)	Solonetz Haplic (SNha)
119	Solonchaks typical	Haplic Solonchaks (SCH)	Solonchaks Haplic (SCHa)
120	Solonchaks meadow	Gleyic Solonchaks (SCg)	Solonchaks Moli-Gleyic (SCmo-gl)
121	Shor Solonchaks	Gleyic Solonchaks (SCg)	Solonchaks Gleyic (SCgl)
123	Solonchaks boggy	Gleyic Solonchaks (SCg)	Solonchaks Gleyic (SCgl)
124	Solonchaks solonchakous	Haplic Solonchaks (SCH)	Solonchaks Haplic (SCHa)
ALLUVIAL AND MARSHY SOILS			
125	Alluvials	Fluvisols (FL)	Fluvisols (FL)
126	Alluvials acid	Dystric Fluvisols (FLd)	Fluvisols Dystric (FLdy)
127	Alluvials weak-acid and neutral	Eutric Fluvisols (FLe)	Fluvisols Eutric (FLeu)
128	Alluvials compact	Eutric Vertisols (VRe)	Fluvisols Vertic (FLvr)
129	Alluvials swamp meadow	Umbric Fluvisols (FLu)	Fluvisols Histic (FLhi)
130	Alluvials meadow	Umbric Fluvisols (FLu)	Fluvisols Umbric (FLum)
132	Deposits recent typical	Umbric Fluvisols (Flu)	Fluvisols Umbric (FLum)
ANTHROPOGENIC SOILS			
133	Paddies typical	Cumulic Anthrosols (ATc)	Anthrosols Hydragric (ATHg)
134	Paddies overflowed	Cumulic Anthrosols (ATc)	Anthrosols Gleyic (Algl)
135	Paddies gleyed	Cumulic Anthrosols (ATc)	Anthrosols Gleyic (ATgl)
SOILS OF MOUNTAINOUS REGIONS			
137	Mountain tundra	Gelic Gleysols (GLi)	Gleysols Gelic (GLge)
138	High-mountain baldy-soddy	Dystric Leptosols (LPd)	Leptosols Dystric (PLdy)
139	Mountain dark-brown soddy	Umbric Leptosols (LPu)	Leptosols Humic (LPhu)
140	Mountain permafrost taiga	Gelic Cambisols (CMi)	Cryosols Turbic (CRtu)
142	Mountain primitive	Lithic Leptosols (LPq)	Leptosols Lithic (Lpli)
143	Mountain shallow neutral on dense rock	Lithic Leptosols (LPq)	Leptosols Haplic (LPha)

- 144 Mountain shallow on loose sands
- 145 Mountain shallow neutral on loose sands
- 148 Mountain forest-meadows

- Lithic Leptosols (LPq)
- Eutric Leptosols (LPe)
- Umbric Leptosols (LPu)

- Leptosols Lithic (LPli)
- Leptosols Eutric (LPeu)
- Leptosols Humic (LPhu)

NONSOIL FORMATIONS

- 149 Nonsoil formations