Classification of examined Soils in WRB and USDA Soil Taxonomy

Direct correspondence between classes is rare. For individual profiles, it is best to re-classify directly in the target system, using its definitions (A Compendium of On-Line Soil Survey Information)

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USDA Soil taxonomy

**Order**
- Aridisol

**Sub Order**
- Argids
  - Calciargids

**Great Group**
- Typic Calciargids

**Sub Group**
- Coarse - Loamy

**Family**
- Coarse – Loamy mixed thermic Typic Calciargids
Khuvsgul Alag-Erdene Ulaan davaa

**USDA:** Sandy loam, Typic Calciustsolls  
**WRB:** Calcic Kastonozem (shf.file: Cryosolic histic and Leptosol humic)  
**Russian:** Mountain soddy-taiga with mountain chernozem non calcareous

- Elevation: 1734 m above m.s.l.  
- Soil moisture regime: Ustic  
- Soil temperature regime: Frigid
Bayan-Ulgii, Tsengel, Shar nuur

USDA: Sandy loam, Lithic Cryorthents
WRB: Hyperskeletic Leptosol (aridic)
Kastanozem calcic
Russian: Light chestnut calcareous

Elevation: 1882 m above m.s.l.
Soil moisture regime: Aridic
Soil temperature regime: Cryids
USDA soil taxonomy: Clay loam, Ustic Calciargids
WRB: Calcisol (Aridic Siltic) shf.file:
Solonchaks_haplic
Russian: Solonchak with meadow chestnut solonchak

Elevation: 2096 m above m.s.l.
Soil moisture regime: Aridic or Ustic
Soil temperature regime: Cryic
Tuv Bayan-Unjuul Baraat

USDA: Sandy loam, Calcidic Argiustolls
WRB: Luvic Calcic Kastonozem (Greyic, Arenic) shf.file: Kastanozems humic leptic

Russian: Shallow typical mountain dark chestnut with typical mountain chestnut

Elevation: 1493m above m.s.l.
Soil moisture regime: Ustic
Soil temperature regime: Frigid
Tuv, Bayan-Unjuul, Khalimagiin shand

USDA: skeletal Sandy loam, Aridic Calciustoll
WRB: haplic calcic Kastanozem (greyic arenic) shf.file: Kastanozems_haplic_humic

**Russian:** Residually meadowish chestnut with typical chestnut and meadow chestnut

**Elevation:** 1312m above m.s.l.
**Soil moisture regime:** Ustic
**Soil temperature regime:** Frigid
Umnugobi, Gurvantes, Khuren tolgoin adag

USDA: grauly Sandy loam Typic Haplocalcids
WRB: Calcisol yermic aridic skeletic (determination fits with shf.file)
Russian: Grey brown desert stony with sairic

Elevation: 1755m above m.s.l.
Soil moisture regime: Aridic
Soil temperature regime: Frigid
Dornod, Khalhgol, Yalalt

USDA: Sandy clay loam, Pachic Haplustolls
WRB: Haplic Kastanozem (Greyic arenic)
Kastanozems_haplic_humic Russian: Typical dark chestnut with dark chestnut weakly developed

Elevation: 653m above m.s.l.
Soil moisture regime: Ustic
Soil temperature regime: Frigid
Arkhangai, Ihtamir, Erdenetolgoi, Tuulainbulag

USDA: fine sandy loam, pachic Argiustoll
WRB: Chernozems haplic (Kastanozems_haplic_humic)
Russian: Typical mountain chernozem with mountain forest dark colored, residually calcareouspical

Elevation: 1714 m above m.s.l.
Soil moisture regime: Ustic
Soil temperature regime: Frigid
Uvurkhangai, Kharkhorin, Nariin khur, Namag

USDA: sandy loam, mixed, Ustic Calciargids
WRB: Fluvisols_umbric
Russian: Meadow swamp alluvial with alluvial meadow saline

Elevation: 1413 m above m.s.l.
Soil moisture regime: ustic
Soil temperature regime: Frigid
Uvurkhangai, Kharkhorin, Ongotson ukhaa, Azartolgoi

**USDA:** Sandy loam, Aridic or typic Argiustolls

**WRB:** Kastanozems_haplic_humic

**Russian:** Typical dark chestnut with meadow chestnut

**Elevation:** 1440m above m.s.l.

**Soil moisture regime:** Ustic

**Soil temperature regime:** Frigid
Umnugobi, Bulgan, Den

USDA: Sandy loam, Xeric or Ustic Calciargids
WRB: Arenosols_haplic
Russian: Weakly fixed sands

Elevation: 1301m above m.s.l.
Soil moisture regime: Aridic
Soil temperature regime: Frigid
Umnugobi, Bulgan, Khavsgait, Ulaantolgoi

**USDA:** Sandy Clay loam, xeric Calciargids

**WRB:** Kastanozems haplic skeletic

**Russian:** Typical mountain light chestnut with shallow mountain light chestnut

**Elevation:** 1836m above m.s.l.

**Soil moisture regime:** Aridic

**Soil temperature regime:** Frigid
Umnugobi, Bulgan, Dal, Unduryagaan

USDA: Skeletal Sandy loam, xeric Haplargids
WRB: Calcisols yermic

Russian: Typical brown steppified desert with brown desert-steppe stony and sairic

Elevation: 1284m above m.s.l.
Soil moisture regime: Aridic
Soil temperature regime: Frigid
Umnugobi, Tsogtoovoo, Zamiin shand, Zavag

USDA: Sandy Clay Loam, xeric Calciargids
WRB: Calcisols haplic
Russian: Shallow stony brown desert-steppe with brown (non division) iolian deposits and sands

Elevation: 1222m above m.s.l.
Soil moisture regime: Aridic
Soil temperature regime: Frigid
Umnugobi, Tsogt-Ovoo, Borteeg, Yamaanii shand

**USDA:** Sandy clay loam, xeric Calciargids  
**WRB:** Calcisols yermic

**Russian:** Typical brown steppified desert with brown (non division) eolian deposits and brown steppified

Elevation: 1360m above m.s.l.  
Soil moisture regime: Aridic  
Soil temperature regime: Frigid
Umnugobi, Khanbogd, Gaviluud, Argalt

**USDA:** Sandy clay loam, xeric Calciargids

**WRB:** Calcisols yermic

**Russian:** Typical brown steppified desert with brown desert-steppe stony and sairic

**Elevation:** 1122m above m.s.l.

**Soil moisture regime:** Aridic

**Soil temperature regime:** Frigid
Umnugobi, Khanbogd, Nomgon, Ovoo

USDA: Sandy clay loam, xeric Calciargids
WRB: Calcisol yermic aridic skeletic
Russian: Grey brown desert stony with sairic and weakly fixed sand

Elevation: 935m above m.s.l.
Soil moisture regime: Aridic
Soil temperature regime: Frigid
Dundgobi, Erdenedalai, Sangiin dalai, Khadat

**USDA:** Sandy Loam, Skeletal Haploargids  
**WRB:** Kastanozems_haplic_skeletic  
**Russian:** Stony chestnut with chestnut solonetzic and chestnut residually-meadowish

Elevation: 1379m above m.s.l.  
Soil moisture regime: Aridic  
Soil temperature regime: Frigid
Dundgobi, Erdenedalai, Tsavchir, Galuutai bor undur

USDA: Sandy loam, xeric Calciargids

WRB: Kastanozems haplic

Russian: Typical chestnut with shallow stony chestnut and colonetz-solonchak complexes

Elevation: 1395m above m.s.l.
Soil moisture regime: Aridic
Soil temperature regime: Frigid
Tuv, Argalant, Khushuut, Moltsog els

USDA: Sandy loam, Ustic Torrifluvents
WRB: Kastanozems_haplic_humc
Russian: Typical dark chestnut

Elevation: 1264m above m.s.l.
Soil moisture regime: Ustic
Soil temperature regime: Frigid