

**Table S1.** General features and morphology of the soils under *Fagus sylvatica* L. at 800 and 1000 m of altitude for mountains of central Apennines (Italy). For symbols see legend.

Horizon <sup>a</sup>	Horizon <sup>b</sup>	Depth cm	Colour <sup>c</sup>	Structure <sup>d</sup>	Roots <sup>e</sup>	Mycelia <sup>f</sup>	Boundary <sup>g</sup>	Thickness cm	Other observations
<b>Mount Terminillo.</b> Parent rock: grey limestone with interbedded thin flintstone layers. Forest management: beech coppice in conversion to high forest.									
<i>Altitude: 800 m</i>									
Slope: 40°; Exposure: N; Mean annual precipitation: 1248 mm; Mean annual air temperature: 10.0°C; Winter mean temperature: 2.1°C; Spring mean temperature: 7.9°C; Summer mean temperature: 18.9°C; Autumn mean temperature: 11.3°C; Soil temperature regime: <i>mesic</i> . Soil moisture regime: <i>udic</i> . Drainage class: Moderately well drained.									
Vegetation: <i>Fagus sylvatica</i> L. (95%), <i>Acer</i> spp., <i>Laburnum anagyroides</i> Medik.; Understory (25% of soil cover): <i>Hedera helix</i> L., <i>Luzula sylvatica</i> (Huds.) Gaudin, mosses, <i>Viola</i> spp., <i>Clematis vitalba</i> L., <i>Juniperus communis</i> L., <i>Daphne laureola</i> L., <i>Lamium purpureum</i> L., <i>Fagus</i> seedlings.									
Soil: loamy-skeletal, mixed, mesic, Typic Hapludoll (Soil Survey Staff, 2014).									
Oi1	OLn	10-7	-	-	0	0	cw	2-4	Beech cupules, leaves, twigs and bark. Few <i>Quercus</i> leaves.
Oi2	OLv1	7-4	-	-	0	0	cw	2-3	Beech cupules, leaves, twigs and partially degraded bark, beechnuts.
Oi3	OLv2	4-2	-	-	0	+ / ++	cw	2-3	Beech cupules, leaves, twigs, and partially degraded bark, beechnuts.
Oa1	OHR	2-1	5YR 2.5/2	-	3mi,vf,f,m	+++	cw	1	Recognizable only beech cupules.
Oa2	OHf	1-0	5YR 2.5/1	-	3mi,f,m	+++	cw	1	Darkish beechnuts.
A	-	0-9	2.5YR 2.5/1	3f,m sbk, fr	3mi,vf,f,m,co	0	cw	7-10	Skeleton: 40%, centimetric dimension.
AB	-	9-16	2.5YR 4/2	2m pl→2f,m sbk, fr	3mi,vf,f,m,co	0	cb	0-8	Skeleton: 10%, centimetric dimension.
Bw1	-	16-23	5YR 3/4	2m pl→2f,m sbk, fr	2mi,vf,f; 3m,co	0	ab	0-9	Skeleton: 10%, centimetric dimension.
Bw2	-	23-33	5YR 4/4	2m pl→2f,m sbk, fr	2mi,vf,f,m,co	0	cw	10-15	Skeleton: 70%, centimetric and decimetric dimension.
Bw3	-	33-66	5YR 5/4	1f,m abk, fr	2mi,vf,f,m,co	0	29-37	cw	Skeleton: 70%, centimetric and decimetric dimension.
BC	-	66-77+	10YR 6/6	sg & 1f abk, fr	1mi,vf,f; 3m,co	0	-	-	Skeleton: 70%, centimetric and decimetric dimension.
Soil: loamy, mixed, mesic Lithic Haprendoll (Soil Survey Staff, 2014).									
Oi1	OLn	5-3	-	-	0	0	cw	2-3	Beech stipels, leaves, twigs and bark, beechnuts. Few <i>Quercus</i> and <i>Acer</i> leaves.

Oi2	OLv	3-1	-	-	0	+++	cb	0-3	Beech stipels, leaves, twigs, and partially degraded bark, beechnuts. Few <i>Acer</i> samaras. Skeleton (5%).
Oa	OHR	1-0	5YR 2.5/2	-	3mi,vf,f,m	+++	cb	0-2	Skeleton: 10%. Darkish beechnuts.
A1	-	0-9	2.5YR 2.5/1	3f,m sbk, fr	3mi,vf,f,m,co	0	cw	5-9	Skeleton: 10%, centimetric dimension.
A2	-	9-19	5YR 2.5/2	3f,m sbk+abk fr	2mi,vf,f,m; 3co	0	cw	8-11	Skeleton: 40%, centimetric dimension.
R	-	19-22+	-	-	-	-	-	-	-

Altitude: 1000 m

Slope: 40°; Exposure: N; Mean annual precipitation: 1248 mm; Mean annual air temperature: 9.1°C; Winter mean temperature: 1.3°C; Spring mean temperature: 7.2; Summer mean temperature: 17.7°C; Autumn mean temperature: 10.1°C. Soil temperature regime: *mesic*. Soil moisture regime: *udic*. Drainage class: Moderately well drained.

Vegetation: *Fagus sylvatica* L. (99%), *Acer* spp.; Understory (5% of soil cover): *Daphne laureola* L., *Fagus* seedlings.

Soil: loamy-skeletal, mixed, mesic, Lithic Haprendoll (Soil Survey Staff, 2014).

Oi1	OLn	17-15	-	-	0	0	cw	1-3	Beech cupules, leaves, twigs and bark.
Oi2	OLv1	15-10	-	-	0	++	cw	2-6	Beech cupules, leaves, twigs and bark, beechnuts.
Oi3	OLv2	10-6	-	-	0	+++	cw	2-5	Beech cupules, leaves, twigs and partially degraded bark, beechnuts.
Oi4	OLv3	6-4	-	-	1mi,vf	+++	cw	1-3	70% of recognizable material. Brownish beechnuts.
Oa	OHR	4-0	10R 2.5/2	-	3mi,f,m	++	cw	3-5	Skeleton: 5%, centimetric dimension. Dark beechnuts.
A1	-	0-11	2.5YR 2.5/1	3f cr+sbk, fr	3mi,vf,f,m,co	0	cw	10-13	Skeleton: 20%, centimetric dimension.
A2	-	11-20	5YR 2.5/1	3f abk+sbk, fr	2mi,vf,f; 3m,co	0	cw	7-10	Skeleton: 40%, centimetric dimension.
AB	-	20-29	5YR 2.5/2	3f abk, fr	1mi,vf,f; 2m; 3co	0	cw	8-14	Skeleton: 50%, centimetric dimension.
2Bwb	-	29-38	5YR 4/3	1f,m abk, fr	1mi,vf,f,m,co	0	cw	7-10	Skeleton: 20%, centimetric dimension.
2Crb	-	38-49+	10YR 5/4	1f,m abk, fr	1mi,vf,f,m,co	0	-	-	Skeleton: 75%, centimetric and decimetric dimension.

Soil: loamy, mixed, mesic, Lithic Haprendoll (Soil Survey Staff, 2014).

Oi1	OLn	16-11	-	-	0	0	cw	3-6	Beech cupules, leaves, twigs and bark. Few <i>Acer</i> leaves.
Oi2	OLv1	11-7	-	-	0	+	cw	2-5	Beech cupules, leaves, twigs and bark, beechnuts.
Oi3	OLv2	7-4	-	-	1mi,vf	++	cw	2-5	Beech cupules, leaves, twigs and partially degraded bark, beechnuts.
Oi4	OLv3	4-3	-	-	3mi,vf,f	+++	cw	1-2	70% of recognizable material. Brownish beechnuts.

Oa	Ohr	3-0	10R 2.5/1	-	3mi,vf,f,m	+	cw	2-4	Skeleton: 20%, centimetric dimension.
A1	-	0-14	2.5YR 2.5/1	3f,m sbk+abk, fr	3mi,vf,f,m; 2co	0	cw	14-18	Skeleton: 5%, millimetric and centimetric dimension.
A2	-	14-24	5YR 2.5/2	3f,m sbk+abk, fr	2mi,vf,f,m,co	0	aw	9-14	Skeleton: 30%, centimetric dimension.
Cr	-	24-45+	10YR 6/4	1m abk, fr	2f; 3m,co	0	-	-	Skeleton: 75%, centimetric and decimetric dimension.

**Mount San Vicino.** Parent rock: grey limestone with interbedded marl and flintstone layers. Forest management: beech coppice in conversion to timber forest.

*Altitude: 800 m*

Slope: 35°; Exposure: N; Mean annual precipitation: 825 mm; Mean annual air temperature: 10.0°C; Winter mean temperature: 1.8°C; Spring mean temperature: 8.3°C; Summer mean temperature: 19.1°C; Autumn mean temperature: 11.0°C. Soil temperature regime: *mesic*. Soil moisture regime: *udic*. Drainage class: Moderately well drained to well drained.

Vegetation: *Fagus sylvatica* L. (90%), *Quercus cerris* L., *Castanea sativa* Mill.; Understory (15% of soil cover): *Rubus ulmifolius* Schott, gramineae, *Pteridium aquilinum* (L.) Kuhn, *Daphne laureola* L., *Cyclamen repandum* Sm., *Clematis vitalba* L., *Gallium* spp., mosses.

Soil: coarse-loamy, mixed, mesic, Typic Hapludoll (Soil Survey Staff, 2014).

Oi1	OLn	9-4	-	-	0	0	cw	5-7	Beech stipels, leaves, twigs and bark, beechnuts.
Oi2	OLv	4-0	-	-	1f	++	cw	4-6	Beech stipels, leaves, twigs and partially degraded bark, beechnuts.
A	-	0-10	7.5YR 3/2	2c cr, fr	3mi,vf,f,m,co	++	cw	5-10	Skeleton: 10%, centimetric dimension.
AB	-	10-18	7.5YR 4/2	2f,m abk+sbk, fr	2mi,mf,f	0	cw	5-8	Skeleton: 10%, centimetric dimension.
Bw1	-	18-30	7.5YR 5/4	2f sbk, fr	2mi,vf,f	0	cw	12-14	Skeleton: 20%, centimetric dimension.
Bw2	-	30-45	10YR 4/3	2f, cr+sbk, fr	1mi,vf,f,m	0	cw	12-18	Skeleton: 20%, centimetric dimension.
2Bwb	-	45-68	10YR 4/2	2f cr, fr	3mi,vf,f; 1m	0	cw	21-24	Skeleton: 70%, centimetric and decimetric dimension.
3Bwb	-	68-85	2.5Y 2/0	1f abk, fr	3mi,vf,f; 2m	0	cw	15-18	Skeleton: 70%, centimetric and decimetric dimension.
3Crb	-	85-92+	7.5YR 4/4	1f abk, fr	1vf,f	0	-	-	Skeleton: 90%, centimetric and decimetric dimension.

Soil: coarse-loamy, mixed, mesic, Typic Humudept (Soil Survey Staff, 2014).

Oi1	OLn	7-3	-	-	0	0	cw	2-4	Beech cupules, leaves, twigs and bark.
Oi2	OLv	3-0	-	-	1vf	+++	cw	3-4	Beech cupules, stipels, leaves, twigs, and partially degraded bark, beechnuts.
A	-	0-9	7.5YR 5/2	2-3f cr, fr	3mi,vf,f,m	0	cw	6-10	Skeleton: 20%, centimetric dimension.
AB	-	9-14	10YR 3/2	2f cr, fr	2mi,vf,f,m,co	0	cb	0-6	Skeleton: 30%, centimetric dimension.
Bw1	-	14-28	10YR 5/4	2f sbk, fr	2mi,vf,f; 1m	0	ab	0-20	Skeleton: 40%, centimetric dimension.

Bw2	-	28-37	10YR 3/4	3m sbk, fr	2mi,vf; 3f,m	0	ab	0-28	Skeleton: 20%, centimetric and decimetric dimension.
2Crb	-	37-40+	10YR 3/2	1f abk, fr	1mi,vf,f; 2m,co	0	-	-	Skeleton: 80%, centimetric and decimetric dimension.

Altitude: 1000 m

Slope: 45°; Exposure: N; Mean annual precipitation: 825 mm; Mean annual air temperature: 9.0°C; Winter mean temperature: 0.8°C; Spring mean temperature: 7.4°C; Summer mean temperature: 18.1°C; Autumn mean temperature: 9.8°C. Soil temperature regime: *mesic*. Soil moisture regime: *udic*. Rock outcropping: 50% of the surface. Drainage class: Moderately well drained to well drained.

Vegetation: *Fagus sylvatica* L. (80%), *Sorbus aria* Crantz, *Acer* spp., *Quercus cerris* L.; Understory (5% of soil cover): gramineae, *Crataegus oxyacantha* L., *Hedera helix* L., *Cyclamen repandum* Sm., *Prunus* spp., *Rosa canina* L., mosses.

Soil: loamy-skeletal, mixed, mesic, Lithic Haprendoll (Soil Survey Staff, 2014).

Oi1	OLn	7-2	-	-	0	0	cw	4-6	Beech leaves, twigs and bark, beechnuts.
Oi2	OLv	2-0	-	-	0	+	cb	0-2	Beech leaves, twigs and partially degraded bark, beechnuts. Earthworms' casts.
A	-	0-7	5YR 2.5/2	3f cr, fr	3mi,vf,f,m,co	0	cw	5-7	Skeleton: 20%, centimetric dimension.
AB	-	7-16	5YR 3/3	3m,f cr+sbk, fr	3mi,vf,f,m,co	0	cw	8-11	Skeleton: 50%, centimetric and decimetric dimension.
Bw	-	16-25	7.5YR 3/3	3f cr+sbk, fr	3mi,vf,f,m,co	0	ai	8-18	Skeleton: 70%, centimetric and decimetric dimension.
2Bwb	-	25-40	2.5YR 3/4	3f sbk, fr	2mi,vf,f; 3m,co	0	ai	10-17	Skeleton: 25%, centimetric and decimetric dimension.
2BCb	-	40-47+	10YR 6/5	1m abk, fr	1mi,vf,f; 2m,co	0	-	-	Skeleton: 60%, centimetric and decimetric dimension.

Soil: loamy-skeletal, mixed, mesic, Inceptic Haprendoll (Soil Survey Staff, 2014).

Oi1	OLn	5-3	-	-	0	0	cb	2-3	Beech leaves, twigs and bark, beechnuts.
Oi2	OLv	3-0	-	-	0	++	cw	1-5	Beech leaves, cupules, twigs and partially degraded bark, beechnuts. Earthworms' casts.
A	-	0-6	5YR 2.5/2	3f sbk+cr, fr	3mi,vf,f,m	0	cw	2-9	Skeleton: 25%, centimetric dimension.
AB	-	6-15	5YR 3/2	3f cr+sbk, fr	3mi,vf,f; 2m	0	cw	7-10	Skeleton: 50%, centimetric and decimetric dimension.
Bw1	-	15-38	5YR 3/3	2-3f,m sbk, fr	3mi,vf,f; 1m	0	ci	15-29	Skeleton: 70%, centimetric and decimetric dimension.
Bw2	-	38-46	5YR 3/4	1m sbk, fr	2mi,vf,f; 1m	0	aw	6-16	Skeleton: 70%, centimetric and decimetric dimension.
BC	-	46-52+	10YR 6/5	1m abk, fr	1mi,vf; 2f,m,co	0	-	-	Skeleton: 70%, centimetric and decimetric dimension.

**Mount Acuto.** Parent rock: white limestone with interbedded flintstone layers. Forest management: beech coppice in conversion to timber forest.

Altitude: 800 m

Slope: 40°; Exposure: N-NE; Mean annual precipitation: 1430 mm; Mean annual air temperature: 10.0°C; Winter mean temperature: 0.4°C; Spring mean temperature: 8°C; Summer mean temperature: 20.1°C; Autumn mean temperature: 11.5°C. Soil temperature regime: *mesic*. Soil moisture regime: *udic*. Drainage class: Well drained.

Vegetation: *Fagus sylvatica* L. (95%), *Carpinus betulus* L., *Acer opalus* Mill., *Quercus* spp.; Understory (30% of soil cover): *Cyclamen repandum* Sm., *Ruscus aculeatus* L., *Daphne laureola* L., *Rubus ulmifolius* Schott, *Allium ursinum* L., *Cardaria draba* (L.) Desv., *Hedera helix* L., gramineae, *Tamus communis* L., *Anemone nemorosa* L., *Luzula sylvatica* (Huds.) Gaudin, *Pteridium aquilinum* (L.) Kuhn, *Viola* spp., *Convolvulus* spp., mosses.

Soil: coarse-loamy, mixed, mesic, Typic Humudept (Soil Survey Staff, 2010).

Oi1	OLn	7-5	-	-	0	0	cw	2-4	Beech cupules, leaves, twigs, bark. Few <i>Quercus</i> , <i>Acer</i> and <i>Carpinus</i> leaves.
Oi2	OLv	5-2	-	-	0	++	cw	3-4	Beech cupules, leaves, twigs and partially degraded bark. Few <i>Quercus</i> , <i>Acer</i> , and <i>Hedera</i> leaves.
Oa	OHr	2-0	-	-	0	+++	cw	2-4	Skeleton: 10-15%, centimetric dimension.
A1	-	0-3	10YR 2/1	2-3f cr, vfr	2mi,vf,f	0	ci	1-7	Skeleton: <5%, centimetric dimension.
A2	-	3-9	10YR 4/4	3f,m sbk, fr	2vf,f,m,co	0	cw	3-8	Skeleton: 20, centimetric dimension.
AB	-	9-25	10YR 5/4	1f,m abk+sbk, fr	3mi,vf,f; 2m,co	0	ci	12-21	Skeleton: 30, centimetric dimension.
Bw1	-	25-49	10YR 5/4	1m sbk+abk, fr	3mi,vf,f,m,co	0	cw	19-31	Skeleton: 30, centimetric dimension.
Bw2	-	49-76	10YR 5/4	1m sbk, fr	2mi,vf,f; 3m,co	0	cw	22-31	Skeleton: 30, centimetric and decimetric dimension.
Bw3	-	76-98	2.5YR 5/6	1f,m sbk, fr	2mi,vf; 3f; 2m,co	0	cw	21-24	Skeleton: 50, centimetric and decimetric dimension.
Bw4	-	98-108	10YR 7/6	1m sbk, fr	1mi,vf,f,m,co	0	cw	8-11	Skeleton: 70, centimetric and decimetric dimension.
BC	-	108-115+	10YR 7/6	sg & 1f sbk, fr	1mi,vf,f,m,co	0	-	-	Skeleton: 70, centimetric and decimetric dimension.

Soil: coarse-loamy, mixed, mesic, Typic Humudept (Soil Survey Staff, 2014).

Oi1	OLn	7-5	-	-	0	0	cw	2-6	Beech cupules, leaves, twigs and bark. Few <i>Quercus</i> , <i>Acer</i> and <i>Carpinus</i> leaves.
Oi2	OLv	5-2	-	-	0	++/+++	cw	2-5	Beech cupules, stipels, leaves, twigs and partially degraded bark. Few <i>Quercus</i> , <i>Acer</i> and <i>Ostrya</i> leaves.
Oa	OHr	2-0	-	-	0	+++	cw	2-4	Dark beechnuts.
A1	-	0-3	10YR 2/1	3f cr, fr	3mi,vf,f,m,co	0	cw	2-3	Skeleton: 10%, centimetric dimension.
A2	-	3-9	10YR 2/2	3f cr, fr	3mi,vf,f,m,co	0	ci	5-15	Skeleton: 10%, centimetric dimension.
AB	-	9-25	10YR 4/4	1f sbk, fr	3mi,vf,f,m,co	0	cw	6-17	Skeleton: 20%, centimetric dimension.
Bw1	-	25-38	10YR 4/5	1m,c sbk, fr	2mi,vf,f,m,co	0	cw	12-16	Skeleton: 30%, centimetric and decimetric dimension.
Bw2	-	38-55	10YR 5/6	3f,m sbk, fr	2mi,vf,f,m,co	0	cw	15-17	Skeleton: 30%, centimetric and decimetric dimension.
Bw3	-	55-70	10YR 5/4	1f,m sbk, fr	2mi,vf,f; 1m,co	0	cw	13-15	Skeleton: 40%, centimetric and decimetric dimension.

References

Bw4	-	70-102	10YR 6/6	1f,m sbk+abk, fr	1mi,vf; 2f	0	cw	30-35	Skeleton: 30%, centimetric and decimetric dimension.
BC	-	102-113+	10YR 7/6	sg & 1m sbk, fr	1mi,fv,f,m,co	0	-	-	Skeleton: 50%, centimetric and decimetric dimension.

Altitude: 1000 m

Slope: 25°; Exposure: N-NE; Mean annual precipitation: 1430 mm; Mean annual air temperature: 9.0°C; Winter mean temperature: -0.5°C; Spring mean temperature: 7.0°C; Summer mean temperature: 19.1°C; Autumn mean temperature: 10.5°C. Soil temperature regime: *mesic*. Soil moisture regime: *udic*. Drainage class: Well drained.

Vegetation: *Fagus sylvatica* L. (100%); Understory (50% of soil cover): *Daphne laureola* L., *Hedera helix* L., *Euphorbia amygdaloides* L., *Anagallis arvensis* L., *Cardamine ennaphyllos* (L.) Crantz, *Viola* spp., *Allium ursinum* L., *Corydalis cava* (L.) Schweigger & Körte, *Lamium purpureum* L., *Stellaria* spp. *Acer* seedlings.

Soil: coarse-loamy, mixed, mesic, Inceptic Haprendoll (Soil Survey Staff, 2014).

Oi1	OLn	5-3	-	-	0	0	cw	2-4	Beech leaves, cupules, twigs and bark, beechnuts. Earthworms' casts.
Oi2	OLv	3-1	-	-	0	++/+++	cw	2-3	Beech leaves, twigs and partially degraded bark, beechnuts.
Oa	OHr	1-0	-	-	0	+++	cw	1-2	Dark beechnuts.
A1	-	0-11	7.5YR 3/2	3f,m sbk, fr	2mi,vf; 3f,m	0	cw	10-11	Skeleton: 10%, centimetric dimension.
A2	-	11-25	7.5YR 2.5/1	2f,m sbk, fr	2mi,vf,f; 3m,co	0	cw	13-15	Skeleton: 30%, centimetric dimension.
2ABb	-	25-33	7.5YR 3/2	3f,m sbk, fr	3mi,vf,f,m,co	0	ci	5-13	Skeleton: 50%, centimetric dimension.
2Bwb	-	33-55	10YR 7/6	1f abk, fr	2mi,vf,f	0	aw	9-23	Skeleton: 80%, centimetric and decimetric dimension.
3Ab	-	55-63	10YR 4/3	1f sbk, fr	2mi,vf,f	0	cw	7-10	Skeleton: 60%, centimetric dimension.
3Bwb	-	63-71	10YR 5/3	1f abk, fr	2mi,vf; 1f	0	cw	7-8	Skeleton: 70%, centimetric dimension.
4Ab	-	71-73	7.5YR 3/2	3f abk, fr	1mi,vf,f	0	cw	2-3	Skeleton: 70%, centimetric dimension.
4Bwb	-	73-79	10YR 5/3	2f,m abk, fr	1mi,vf,f	0	cw	5-6	Skeleton: 75%, centimetric dimension.
4BC	-	79-88+	10YR 6/6	1f,m abk, fr	v1mi,vf,f	0	-	-	Skeleton: 80%, centimetric and decimetric dimension.

Soil: loamy-skeletal, mixed, mesic, Inceptic Haprendoll (Soil Survey Staff, 2014).

Oi1	OLn	14-10	-	-	0	0	cw	4-7	Beech leaves, cupules, twigs, and bark, beechnuts.
Oi2	OLv1	10-7	-	-	0	++	cw	3-4	Skeleton: <5%, centimetric dimension. Beech leaves, twigs and partially degraded bark, beechnuts.
Oi3	OLv2	7-4	-	-	0	+++	cw	3-4	Beech leaves, twigs and partially degraded bark, beechnuts.
Oa	OHr	4-0	-	-	2mi,vf,f	++/+++	cb	3-4	Dark beechnuts.

A	-	0-13	7.5YR 2.5/1	3f,m cr+sbk, fr	3mi,vf,f,m; 2co	0	cw	11-16	Skeleton: 35%, centimetric dimension.
AB	-	13-20	10YR 3/2	1f,m sbk+abk, fr	2mi,vf,f,m,co	0	cw	8-10	Skeleton: 50%, centimetric dimension.
2Ab	-	20-36	10YR 2/2	1f abk, fr	2mi,vf,f; 3m,co	0	cw	14-20	Skeleton: 50%, centimetric and decimetric dimension.
2Bwb1	-	36-69	10YR 4/4	1f abk, fr	2mi,vf,f; 1m	0	cw	32-36	Skeleton: 60%, centimetric and decimetric dimension.
2Bwb2	-	69-75	10YR 6/6	1f abk, fr	1mi,vf	0	cw	5-8	Skeleton: 60%, centimetric dimension.
2BC2	-	75-85+	10YR 7/6	1f abk, fr	1mi,vf	0	-	-	Skeleton: 75%, centimetric and decimetric dimension.

<sup>a</sup>horizons' designation according to Schoeneberger et al. (2012).

<sup>b</sup>horizons' designation according to Baize and Girard (2008).

<sup>c</sup>moist and crushed, according to the Munsell Soil Color Charts.

<sup>d</sup>1=weak, 2=moderate, 3=strong; f=fine, m=medium, c=coarse; cr=crumb, abk=angular blocky, sbk=sub-angular blocky, pl=platy; m= moist; fr, friable; vfr, very friable.

<sup>e</sup>0=absent, v<sub>1</sub>=very few, 1=few, 2=plentiful, 3=abundant; mi=micro, vf=very fine, f=fine, m=medium, co=coarse.

<sup>f</sup>we referred to the mycelia visible at naked eyes. 0=absent, +=few, ++=plentiful, +++=abundant.

<sup>g</sup>a=abrupt, c=clear; b=broken, w=wavy, s=smooth, i=irregular.

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