

ANNEX C 1: GROUPS OF FOREST TYPES IN ROMANIA

FORMATION GROUP: 1 PURE SPRUCE STANDS AND FOREST TYPES WITH SPRUCE (Picea composita)

- 1 1 Pure spruce stands (Piceeta)
- 1 2 Spruce – fir (Piceto-Abieta)
- 1 3 Mixed Norway spruce – silver fir – European beech stands (Piceeto-Fageta)
- 1 4 Norway spruce – European beech stands (Piceeto-Fageta)
- 1 5 Norway spruce - European larch stands (Piceeto-Larchta)
- 1 6 Norway spruce mixed with stone pine stands (Piceeto-Cembraeta)

FORMATION GROUP: 2 PURE SILVER FIR STANDS AND SILVER FIR FOREST TYPES (WITHOUT SPRUCE) (ABIETA COMPOSITA)

- 2 1 Pure silver fir stands (Abieta)
- 2 2 Fir-beech stands (Abieto-Fageta)
- 2 3 Mixed fir stands and beech stands (Abieto-Fageta composita)

FORMATION GROUP: 3 PINE STANDS, LARCH STANDS AND VARIOUS CONIFEROUS (WITHOUT SPRUCE OR FIR) FOREST TYPES

- 3 1 Pure Scots pine stands (Pineta sylvestris)
- 3 2 Pure black pine stands (Pineta nigrae)
- 3 3 Mixed black pine stands (Pineta nigrae composita)
- 3 4 Pure larch stands (Lariceta)
- 3 5 Larch – stone pine stands (Lariceto-Cembraeta)
- 3 6 Stone pine stands (Pineta cembrae)

FORMATION GROUP: 4 BEECH STANDS AND FOREST TYPES WITH BEECH (WITHOUT OAK) (FAGETA)

- 4.1 Pure mountain beech stands (Fageta montana)
- 4 2 Pure hill beech stands (Fageta submontana)
- 4 3 Mixed beech stands (Fageta composita)

FORMATION GROUP: 5 SESSILE OAK STANDS AND FOREST TYPES WITH SESSILE OAK (QUERCETA SESSILIFLORAR COMPOZITA)

- 5 1 Pure sessile oak stands (Querceta sessiflorae)
- 5 2 Sessile oak – beech stands (Querceto-Fageta)
- 5 3 Sessile oak mixed stands in the hills (Querceta sessiliflorae-Carpineta)
- 5 4 Sessile oak – pedunculate oak (Querceta sessiliflorae-roboris)
- 5 5 Sessile oak and pedunculate oak mixed stands in the hills (Querco-roboris-sessiliflorae-Carpineta))

FORMATION GROUP: 6 PEDUNCULATE OAK STANDS AND FORESTS WITH PEDUNCULATE OAK (WITHOUT SESSILE OAK) (QUERCETA ROBORIS)

- 6 1 Pure pedunculate oak stands (Querceta roboris)
- 6 2 Pedunculate oak mixed stands in the hill and low plains (Querco robori-Carpineta)
- 6 3 Mixed stands from floodplains (Querco robori-Carpineta fraxinetosa)

FORMATION GROUP: 7 TURKEY OAK STANDS, ITALIAN OAK STANDS, TURKEY OAK + ITALIAN OAK FORESTS (QUERCETA CONFERTAE – CERRIS)

- 7 1 Pure Turkey oak stands (Querceta cerris)
- 7 2 Italian Oak stands (Querceta confertae)
- 7 3 Turkey oak – Italian oak stands (Querceta confertae cerris)
- 7 4 Mixed stands of Turkey oak, Italian oak and other oak species (Querceta mixta)
- 7 5 Mixed Turkey oak forests, mixed Italian Oak forests (Querco- Carpineta cerretosa)

FORMATION GROUP: 8 OAK STANDS WITH GREYISH OAK AND DOWNY OAK AND MIXED FORESTS WITH DOWNY OAK (QUERCETA PEDUNCULIFLORAE-PUBESCENS)

- 8 1 Greyish oak stands (Querceta pedunculiflorae)
- 8 2 Pure downy/pubescent oak stands, (Querceta pubescentis)
- 8 3 Mixed stands of greyish oak and downy oak (Querceta pedunculiflorae-pubescentis)
- 8 4 Mixed stands of greyish oak and pedunculate oak (Querceta roboris- pedunculiflorae)
- 8 5 Mixed forest steppe with greyish oak and downy oak (Querco –Carpineta subtermophilia)

FORMATION GROUP: 9 FORESTS OF POPLAR, WILLOW, ALDER (POPULETA, SALCETA, ALNETA)

- 9 1 Pure silver poplar stands (Populeta albae)
- 9 2 Pure black poplar stands (Populeta nigrae)
- 9 3 Mixed silver and black poplar stands (Populeta nigrae-albae)
- 9 4 Eurasian Aspen stands (Populeta tremulae)
- 9 5 Pure willow stands (Saliceta albae)
- 9 6 Mixed poplar and willow stands (Populeto-Saliceta)
- 9 7 Black alder stands (Alneta glutinosae)
- 9 8 Grey alder stands (Alneta incanae)
- 9 9 Mixed black and grey alder stands (Alneta incanae - glutinosae)

FORMATION GROUP: „0“ FORESTS OF VARIOUS DECIDUOUS SPECIES

- 0 1 Hornbeam stands (Carpineta)
- 0 2 Lime-tree stands (Tilieta)
- 0 3 Maple stands (Acereta)
- 0 4 Ash stands (Fraxinus)
- 0 5 Elm stands (Ulmata)

Explanatory notes:

The above classification distinguishes 10 groups of forest type formations, namely:

1. Spruce stands and forest types with spruce
2. Silver fir stands and silver fir forest types (without spruce)
3. Pine stands, larch stands and various coniferous (without spruce or fir) forest types
4. Beech stands and forest types with beech (without oak)
5. Sessile oak stands and forest types with sessile oak
6. Pedunculate oak stands and forests with pedunculate oak (without sessile oak)
7. Turkey oak stands, Italian oak stands, Turkey oak + Italian oak forests
8. Oak stands with greyish oak and downy oak and mixed forests with greyish and downy oak
9. Forests of poplar, willow, alder.
10. Forests of various deciduous species.

The main criterion in setting up these 10 formation groups consisted in the selection of various species or species groups specific for each formation group, covering in this way the classification system for the forest types in Romania.

Thus, for group no. 1, the main species is the Norway spruce (*Picea abies* (L) Karsten); for group no. 2, the main species is the Silver fir (*Abies alba* Miller), for group no. 3, the pines (*Pinus sylvestris* L., *P. nigra* Arnold, *P. cembra* L.) and the larch (*Larix decidua* Miller) and so on.

The last group includes various deciduous species which would normally enter the specific composition of other groups, but which, in rare cases, can stand for particular types. Usually the types of forests made up of such species are not fundamental types but types derived from the former (hornbeam stands, lime-tree stands, and similar). Yet, there are cases when such species can stand for fundamental types, some of them with relic origin, others related to a-zonal conditions (flood plain types).

Within each such formation group, the formations are usually distinguished according to the type-specific composition criterion. Thus, within the first group, of “pure spruce stand and spruce forest type”, the following formations are differentiated:

- 1 1 pure spruce stands
- 1 2 spruce – fir stands
- 1 3 mixed Norway spruce – silver fir – European beech stands
- 1 4 Norway spruce – European beech stands
- 1 5 Norway spruce - European larch stands
- 1 6 mixed Norway spruce with stone pine stands