

eol species cards

Andorran Pyrenees

Plants

eol species cards

In the high slopes of the Andorran Pyrenees, climate change has already begun to alter the landscape and biodiversity. Some species are moving to higher latitudes, and some have begun to decline. Human land uses also causes shifts in the natural order of things, but little research has been done on how people have impacted this particular place.

Wildlife in the Changing Andorran Pyrenees is an Earthwatch Institute project led by Dr. Bernat Claramunt López that seeks to answer some of these questions and share the outcomes to address these pressing issues. This deck covers the threats, adaptability, and population trends of 36 plants from this area.

Find this card deck and more at: education.eol.org/species_cards

CREAF **EARTHWATCH INSTITUTE** earthwatch.org/expeditions

Deck created by Zoe Foster
Title Image Credit: Francesco Sisti CC BY-NC-SA 2.0

Project Description

Common Name	Scientific Name	Taxon Group
Food Web Roles		
DECO	Decomposer: Energy from dead material	
AUTO	Autotroph: Energy from sun, water, CO ₂	
HERB	Herbivore: Energy from plants	
OMNI	Omnivore: Energy from plants, animals	
CARN	Carnivore: Energy from animals	
APEX	Apex Predator: Top predator	
DETR	Detritivore: Energy from dead vegetation	
SANG	Sanguinivore: Energy from blood	
MULT	Multiple: Energy from multiple sources	
Habitat (where species is found)		
+ (indicates species is also found in other habitats)		
Species Conservation Status		
IUCN Redlist™		
International Union for Conservation of Nature		
NE	Not Evaluated	
LC	Least Concern	
DD	Data Deficient	
NT	Near Threatened	
EN	Endangered	
VU	Vulnerable	
CR	Critically Endangered	
EW	Extinct in Wild	
EX	Extinct	

eol Flowering Plants

Mountain Ash

Sorbus aucuparia

WWF Ecoregion + Temperate coniferous forest Foodweb Role

Height	9 - 18 m	
Growth Form	Tree	
Leaf Duration	Deciduous	
Flower Color	White	
Sunlight/Soil	Full sun; moist	
Threats + Adaptability		
Major threats: Bacteria, pests		
Adaptability: Thrives in wide variety of soil types		
Population trend: Globally unknown		

Image: 4028mdk09 CC-BY-SA

eol Flowering Plants

Yarrow

Achillea millefolium

WWF Ecoregion + Temperate coniferous forest Foodweb Role

Height	60 - 90 cm	
Growth Form	Herbaceous	
Life Cycle	Perennial	
Flower Color	White	
Sunlight/Soil	Full sun; dry	
Threats + Adaptability		
Major threats: None		
Adaptability: Thrives in man-made habitats		
Population trend: Globally unknown		

Image: matthew_salkiewicz CC-BY-NC

eol Flowering Plants

Felwort

Swertia perennis

WWF Ecoregion + Temperate coniferous forest Foodweb Role

Height	15 - 45 cm	
Growth Form	Herbaceous	
Life Cycle	Perennial	
Flower Color	Dark Blue	
Sunlight/Soil	Variable; moist	
Threats + Adaptability		
Major threats: Nutrient input, drainage, fragmentation		
Adaptability: Underground organs or seed banks		
Population trend: Globally unknown, fragmentation		

Image: Jerzy Opila CC-BY-SA



Hogweed

Heracleum sphondylium Flowering Plants



WWF Ecoregion
Temperate coniferous forest

AUTO



Height	50 - 120 cm
Growth Form	Herbaceous
Life Cycle	Perennial or biennial
Flower Color	White
Sunlight/Soil	Part shade; moist



Threats + Adaptability

Major threats: Root fungus
Adaptability: Survives through rough mountain winters
Population trend: Globally unknown

Image: Biopix CC-BY-NC



Maidenstears

Silene vulgaris Flowering Plants



WWF Ecoregion
Temperate coniferous forest

AUTO



Height	30 - 45 cm
Growth Form	Herbaceous
Life Cycle	Perennial
Flower Color	White
Sunlight/Soil	Variable; dry



Major threats: Urbanization, fragmentation
Adaptability: Has cooling wax to survive extreme heat
Population trend: Globally stable, localized fragmentation

Image: 2007 Luigi Rignanese CC-BY-NC



Alpine Azalea

Kalmia procumbens Flowering Plants



WWF Ecoregion
Temperate coniferous forest

AUTO



Height	10 cm (max)
Growth Form	Shrub
Leaf Duration	Evergreen
Flower Color	Pink
Sunlight/Soil	Full sun; drained



Major threats: Climate change driven treeline shift
Adaptability: Survives through extreme low temperatures
Population trend: Globally unknown

Image: Arnstein Rønning CC-BY-SA

Scotch Heather

Calluna vulgaris Flowering Plants



WWF Ecoregion
Temperate coniferous forest



Height	30 - 60 cm
Growth Form	Shrub
Leaf Duration	Evergreen
Flower Color	Pink
Sunlight/Soil	Variable; moist



Threats + Adaptability

Major threats: Climate warming, high humidity, grazing
Adaptability: Thrives in wide range of soils
Population trend: Globally unknown

Image: Willow CC-BY

Bearberry

Arctostaphylos uva-ursi Flowering Plants



WWF Ecoregion
Temperate coniferous forest



Height	15 - 30 cm
Growth Form	Shrub
Leaf Duration	Deciduous
Flower Color	White to pink
Sunlight/Soil	Part shade; dry



Major threats: Human development, herbicides
Adaptability: Tolerant to drought, extremely winter-hardy
Population trend: Globally unknown

Image: Biopix CC-BY-NC



Cowslip

Primula veris Flowering Plants



WWF Ecoregion
Temperate coniferous forest



Height	10 - 30 cm
Growth Form	Herbaceous
Life Cycle	Perennial
Flower Color	Yellow
Sunlight/Soil	Part shade; drained



Major threats: Herbicides, ploughing
Adaptability: High genetic diversity from cross pollination
Population trend: Globally unknown

Image: Petr Filippov CC-BY-SA



Black Poplar

Populus nigra

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role

Height	12 - 15 m
Growth Form	Tree
Leaf Duration	Deciduous
Flower Color	Red
Sunlight/Soil	Full sun; moist

IUCN Redlist™ LC

Threats + Adaptability
Major threats: Pests, disease
Adaptability: Hardy through rough winters
Population trend: Globally unknown

Image: Michael Kesi

Wild Pansy

Viola tricolor

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role

Height	8 - 25 cm
Growth Form	Herbaceous
Life Cycle	Biennial
Flower Color	Purple, white, yellow
Sunlight/Soil	Full sun; drained

IUCN Redlist™ NE

Threats + Adaptability
Major threats: Habitat destruction, over-harvesting in wild
Adaptability: Survive in most all growing conditions
Population trend: Globally unknown

Image: Kjetil Lenes

European Aspen

Populus tremula

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role

Height	9 - 21 m
Growth Form	Tree
Leaf Duration	Deciduous
Flower Color	Gray to green
Sunlight/Soil	Full sun; moist

IUCN Redlist™ NE

Threats + Adaptability
Major threats: Climate change, pollution, pests, disease
Adaptability: Special roots find resources when scarce
Population trend: Globally unknown

Image: Biopix CC-BY-NC

Thrift Seapink

Armeria maritima

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role

Height	15 - 30 cm
Growth Form	Herbaceous
Life Cycle	Perennial
Flower Color	Pink to white
Sunlight/Soil	Full sun; dry

IUCN Redlist™ NE

Threats + Adaptability
Major threats: Human recreation
Adaptability: Resistant to drought, fire, and saline areas
Population trend: Globally unknown

Image: Malcolm Storey CC-BY-NC-SA

Alpine Rose

Rhododendron ferrugineum

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role

Height	50 - 130 cm
Growth Form	Shrub
Leaf Duration	Evergreen
Flower Color	Deep pink
Sunlight/Soil	Full sun; moist

IUCN Redlist™ LC

Threats + Adaptability
Major threats: Grazing, climate change
Adaptability: Tolerant to low winter temperatures
Population trend: Globally stable

Image: H. Krisp CC-BY

Alpine Chickweed

Cerastium alpinum

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role

Height	5 - 20 cm
Growth Form	Herbaceous
Life Cycle	Perennial
Flower Color	White
Sunlight/Soil	Full sun; sand

IUCN Redlist™ NE

Threats + Adaptability
Major threats: Footpath erosion
Adaptability: Thrives through drought
Population trend: Globally unknown

Image: Meneerke bloem CC-BY-SA



Kingcup

Caltha palustris

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role
AUTO

Height	30 - 45 cm
Growth Form	Herbaceous
Life Cycle	Perennial
Flower Color	Yellow
Sunlight/Soil	Variable; wet

IUCN Redlist™
LC

Threats + Adaptability
Major threats: None
Adaptability: Thrives in wide variety of wet habitats
Population trend: Globally stable

Image: Peter Gorman CC-BY-NC-SA

Hawthorn

Crataegus monogyna

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role
AUTO

Height	18 m (max)
Growth Form	Tree or shrub
Leaf Duration	Deciduous
Flower Color	White
Sunlight/Soil	Variable; wet

IUCN Redlist™
NE

Threats + Adaptability
Major threats: Disease, pests
Adaptability: Tolerates varying sun and soil conditions
Population trend: Globally unknown

Image: High Contrast CC-BY

Straw-coloured Turk's Cap

Lilium pyrenaicum

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role
AUTO

Height	45 - 120 cm
Growth Form	Shrub
Leaf Duration	Deciduous
Flower Color	Bright yellow
Sunlight/Soil	Part shade; moist

IUCN Redlist™
NE

Threats + Adaptability
Major threats: Change in air and soil temperature
Adaptability: Survives harsh climate at high altitudes
Population trend: Globally unknown

Image: Isidre blanc CC-BY-SA

Scots Pine

Pinus sylvestris

eol
Conifers and relatives



WWF Ecoregion
Temperate coniferous forest

Foodweb Role
AUTO

Height	9 - 18 m
Growth Form	Tree
Leaf Duration	Coniferous
Cone Length	12 - 20 mm
Sunlight/Soil	Full sun; drained

IUCN Redlist™
LC

Threats + Adaptability
Major threats: Logging, agricultural development
Adaptability: Thrives in wide variety of habitats
Population trend: Globally stable

Image: Hermann Falkner CC-BY-NC

Ground Juniper

Juniperus communis

eol
Conifers and relatives



WWF Ecoregion
Temperate coniferous forest

Foodweb Role
AUTO

Height	1 - 6 m
Growth Form	Tree or shrub
Leaf Duration	Evergreen
Flower Color	Yellow to green
Sunlight/Soil	Fun sun; variable

IUCN Redlist™
LC

Threats + Adaptability
Major threats: None
Adaptability: Dominates after non-fire disturbances
Population trend: Globally increasing

Image: José María Escolano CC-BY-NC-SA

Dog's-tooth-violet

Erythronium dens-canis

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role
AUTO

Height	15 cm (avg)
Growth Form	Shrub
Leaf Duration	Deciduous
Flower Color	White to violet
Sunlight/Soil	Part shade; moist

IUCN Redlist™
NE

Threats + Adaptability
Major threats: Cultivation
Adaptability: Ephemeral nature allows seasonal change
Population trend: Globally unknown

Image: Meneerke bloem CC-BY-SA



Yellow Star-of-bethlehem
Gagea lutea

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role

Height	15 cm (max)
Growth Form	Herbaceous
Life Cycle	Perennial
Flower Color	Yellow
Sunlight/Soil	Full sun; moist

IUCN Redlist™
LC

Threats + Adaptability
Major threats: High grazing pressure
Adaptability: Quickly propagated, easily recolonizes
Population trend: Globally stable

Image: Biopix CC-BY-NC

Hairy Gagea
Gagea pratensis

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role

Height	10 - 20 cm
Growth Form	Herbaceous
Life Cycle	Perennial
Flower Color	Yellow
Sunlight/Soil	Full sun; moist

IUCN Redlist™
NE

Threats + Adaptability
Major threats: Climate driven changes in distribution
Adaptability: Survive periods of freezing and dehydration
Population trend: Globally decreasing

Image: Biopix CC-BY-NC

Spotted Orchid
Dactylorhiza maculata

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role

Height	30 - 40 cm
Growth Form	Herbaceous
Life Cycle	Perennial
Flower Color	Pale pink to purple
Sunlight/Soil	Variable; moist

IUCN Redlist™
NE

Threats + Adaptability
Major threats: Artificial land cover, farming
Adaptability: Able to survive in variety of sun exposures
Population trend: Globally unknown

Image: Ecomare, Sytske Dijksen CC-BY-NC

Silver Birch
Betula pendula

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role

Height	9 - 12 m
Growth Form	Tree
Leaf Duration	Deciduous
Flower Color	Yellow to brown
Sunlight/Soil	Variable; wet

IUCN Redlist™
LC

Threats + Adaptability
Major threats: Fragmentation
Adaptability: Thrives in burned forest
Population trend: Globally stable, localized fragmentation

Image: Biopix CC-BY-NC

Mountain Pine
Pinus uncinata

eol
Conifers and relatives



WWF Ecoregion
Temperate coniferous forest

Foodweb Role

Height	10 - 20 m
Growth Form	Tree
Leaf Duration	Coniferous
Cone length	25 - 60 mm
Sunlight/Soil	Full sun; drained

IUCN Redlist™
LC

Threats + Adaptability
Major threats: Fires, afforestation
Adaptability: Able to survive at the top of treeline
Population trend: Globally stable

Image: Joan Simon CC-BY-SA

Spignel
Meum athamanticum

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest

Foodweb Role

Height	30 - 40 cm
Growth Form	Herbaceous
Life Cycle	Perennial
Flower Color	White
Sunlight/Soil	Full sun; moist

IUCN Redlist™
NE

Threats + Adaptability
Major threats: Herbicides, ploughing
Adaptability: Survive through intense grazing
Population trend: Globally unknown

Image: Michael Wunderli CC-BY



Carpet Bugle

Ajuga pyramidalis

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest Foodweb Role

Height	15 - 30 cm	NE
Growth Form	Herbaceous	
Life Cycle	Perennial	
Flower Color	Blue-violet	
Sunlight/Soil	Variable; moist	

IUCN Redlist™

Threats + Adaptability
Major threats: Overgrazing, change in land usage
Adaptability: Able to grow in wide range of elevations
Population trend: Globally unknown

Image: Biopix CC-BY-NC

Alpine Snowbell

Soldanella alpina

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest Foodweb Role

Height	15 cm (max)	NE
Growth Form	Shrub	
Leaf Duration	Evergreen	
Flower Color	Blue to violet	
Sunlight/Soil	Part shade; moist	

IUCN Redlist™

Threats + Adaptability
Major threats: Climate warming, low heat threshold
Adaptability: Bloom through winter, continue populating
Population trend: Globally unknown

Image: Stemonitis CC-BY-SA

Pyrenees Buttercup

Ranunculus pyrenaeus

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest Foodweb Role

Height	5 - 20 cm	NE
Growth Form	Herbaceous	
Life Cycle	Perennial	
Flower Color	White	
Sunlight/Soil	Part shade; moist	

IUCN Redlist™

Threats + Adaptability
Major threats: Overgrazing, soil erosion
Adaptability: Able to survive in wide range of climates
Population trend: Globally unknown

Image: Michael Kesi

Spring Pasqueflower

Pulsatilla vernalis

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest Foodweb Role

Height	5 - 20 cm	LC
Growth Form	Herbaceous	
Life Cycle	Perennial	
Flower Color	White, brown, violet	
Sunlight/Soil	Full sun; moist grit	

IUCN Redlist™

Threats + Adaptability
Major threats: Intensification of forestry
Adaptability: Fast spreading and hybridization
Population trend: Globally decreasing

Image: Biopix CC-BY-NC

Large-flowered Butterwort

Pinguicula grandiflora

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest Foodweb Role

Habitat	10 - 20 cm	NE
Growth Form	Herbaceous	
Life Cycle	Perennial	
Flower Color	Deep purple	
Sunlight/Soil	Full sun; moist	

IUCN Redlist™

Threats + Adaptability
Major threats: Loss of habitat due to increased drainage
Adaptability: Carnivorous when low nutrient availability
Population trend: Globally unknown

Image: Isidre blanc CC-BY-SA

Dwarf Fescue

Festuca eskia

eol
Flowering Plants



WWF Ecoregion
Temperate coniferous forest Foodweb Role

Height	22 - 50 cm	NE
Growth Form	Graminoid	
Life Cycle	Perennial	
Flower Color	Pale green	
Sunlight/Soil	Part shade; dry	

IUCN Redlist™

Threats + Adaptability
Major threats: Climate change
Adaptability: Thrives across altitude gradients
Population trend: Globally unknown

Image: MBG CC-BY-NC-SA



Gagea liothardii  Flowering Plants



 + WWF Ecoregion Temperate coniferous forest 

Height	15 cm (max)
Growth Form	Herbaceous
Life Cycle	Perennial
Flower Color	Yellow
Sunlight/Soil	Full sun; wet

 NE IUCN Redlist™

Threats + Adaptability
Major threats: Climate warming
Adaptability: Low generational difference
Population trend: Globally unknown

Image: 2014 Umberto Ferrando CC-BY-NC-SA

Hairless Blue-sow-thistle  Flowering Plants



 + WWF Ecoregion Temperate coniferous forest 

Height	90 - 130 cm
Growth Form	Herbaceous
Life Cycle	Perennial
Flower Color	Light blue
Sunlight/Soil	Variable; moist

 DD IUCN Redlist™

Threats + Adaptability
Major threats: None
Adaptability: Relatively winter-hardy
Population trend: Globally unknown

Image: Michael Wunderli CC-BY

White Crocus  Flowering Plants



 + WWF Ecoregion Temperate coniferous forest 

Height	10 - 15 cm
Growth Form	Graminoid
Life Cycle	Perennial
Flower Color	White
Sunlight/Soil	Shade; moist

 NE IUCN Redlist™

Threats + Adaptability
Major threats: None
Adaptability: Survives under tree canopy and bracken
Population trend: Globally unknown

Image: Tim Brütsch CC-BY-NC

 species cards

Adaptability: The ability of an organism to adjust to new environmental conditions

Afforestation: Process of establishing a forest especially on land not previously forested

Annual: Life cycle in which plants bloom, produce seeds, and die in a single year

Ephemeral: Transitory, lasting a very short time

Fragmentation: Habitat loss due to division of large, continuous habitats into smaller, more isolated land

Growth Form: Characterization of plants as trees, shrubs, herbaceous, and graminoid (grass-like)

Habitat: The area an organism lives and can find its resources

Leaf Duration: Trees and shrubs are characterized as evergreen (retains green leaves all year) and deciduous (loses all leaves in fall)

Perennial: Life cycle in which plants regrow each spring

Vocabulary

