

Butterflies of the Italian Dolomites

Naturetrek Tour Report

1 - 8 July 2012



Arran Brown



Thor's Fritillary



Ciampedie at start of Rosengarten



2012 NaturetrekGroup in Val Venegia

Report compiled by Alan Miller and Paul Harnes
Images by Alan Miller



Naturetrek Cheriton Mill Cheriton Alresford Hampshire SO24 0NG England

T: +44 (0)1962 733051

F: +44 (0)1962 736426

E: info@naturetrek.co.uk

W: www.naturetrek.co.uk

Tour Leaders: Alan Miller
 Paul Harmes

Participants: Bob Bailey
 Chris Rose
 Mary Robins
 Irene Draper
 Steve Outram
 Sue Outram
 John Austin
 Robert Godden
 Brian Wright
 Uli Wright
 Patrick Nash
 Ute Nash
 Kevin Button
 Bob Mitchell
 Rosalind Mitchell
 Melene Brown

Day 1

Sunday 1st July

Venice Airport to Tamion via the Agordo Gorge

Weather: Fine, sunny and hot. 30 degrees at Venice Airport, 34 deg. at Candaten Picnic area, and 30 deg. in the Fassa Valley

Most of the group met Paul at London Gatwick airport for the morning British Airways flight to Venice. The flight left the UK on schedule and landed at Venice Marco Polo airport a few minutes ahead of schedule at 10.45am. After clearing immigration and collecting luggage the group met Alan who had been in the Dolomites the week before. After car-hire administration had been completed we walked the short distance to the parking area where our first butterflies were spotted, Clouded Yellow and Common Blue. We were on the road by 11.45am heading north along the A27 Autostrada. We spotted a few birds including White Stork, Cattle Egret, Little Egret and Black Kite before leaving the motorway at Ponte Nelle Alpi. We then drove through Belluno and into the National Park of the Bellunesi Dolomites.

At 1pm we stopped near Peron at the Candaten Picnic area and had a 'mini picnic' before checking a track and nearby riverbed. As soon as we entered the tree-lined track we started seeing butterflies including Small Copper, Meadow Brown, Small Skipper and White Admiral. When we reached the river bed we added Southern Small White and Brimstone. Other sightings included Bank Vole, Nine-spotted moth and Common Wall Lizard.

At 2.45pm hot but happy we continued our journey. Our route took us through Agordo and over the San Pellegrino Pass at 1919 metres before dropping into the Fassa Valley and the delightful hamlet of Tamion near Vigo di Fassa. We were greeted at the family-run Hotel Gran Mugon by Katia, and then met the last two members of our group, Patrick and Ute, who had travelled to Tamion independently. We then settled into our new surroundings.

We met in the bar at 6.30pm and were introduced to two more members of the 'family', Genio and Stefano. Alan and Paul then talked over the prospects for the coming week and everyone introduced themselves and their hopes for our time in the Dolomites. It was evident that there was a wide range of interests which boded well for the week ahead. At 7.30pm we moved to the dining room and enjoyed our first evening meal which was a traditional Ladin meal from the Fassa Valley area.

After a long travelling day some retired after dinner whilst others adjourned to the television to watch the European Cup Final where Italy were playing Spain, the eventual Champions. Before retiring, Alan turned on his moth trap positioned behind the hotel

Day 2

Monday 2nd July

Morning around Tamion (1548m); Afternoon in Val di Monzoni (1526m)

Weather: Fine and hot. Mainly sunny with some high cloud. Max 25 degrees C

From 6am members of the group came and went as the haul of moths attracted to the moth trap light was examined. Besides a full trap, the white wall behind the trap held a good selection of moths. Over 50 species were identified including Great Brocade, Varied Coronet, Pine-tree Lappet and Beautiful Carpet

After breakfast Alan and Paul made a trip to the supermarket for the picnic makings then at 9am the group reconvened outside the hotel. Some of the more interesting moths were shown to members who had missed them earlier, and then we set off on foot to explore the meadows above Tamion. It wasn't long before we were seeing butterflies including Amanda's Blue, Mazarine Blue, Sooty Copper and Marbled White. We found both the nominate form of Woodland Ringlet and the '*bippomedusa*' subspecies and it was good to compare them. We also found an interesting small black moth which was later identified as a Bagworm, a micro moth. In a wooded area we came across a mixed flock of birds and watched Crested Tit, Willow Tit, Goldcrest, Nuthatch and Eurasian Treecreeper. Along our path we found lots of nicely scented *Gymnadenia conopsea* (Fragrant Orchid). All too soon it was time to turn around. On our return walk we found a Chequered Skipper which was new for the tour. Alpine plant species were also well represented with *Traunsteinera globosa* (Round-headed Orchid), *Salvia pratensis* (Meadow Clary) and *Moneses uniflora* (One-flowered Wintergreen).

We arrived back at our hotel at 12.45pm and after a quick comfort break we collected our vehicles and drove the short distance to Val di Monzoni for a picnic in the meadow. While Alan and Paul prepared the picnic the group checked the meadow finding Dark Green Fritillary. Over lunch Nutcrackers could be heard calling from nearby trees and a few members of the group caught brief flight views.

After lunch we completed two loops, one through the wooded area above the picnic site, the other through the meadow below our vehicles. We had lots of new sightings including a splendid Thor's Fritillary, Geranium Argus and Alpine Blue. The most common 'blue' was Silver-studded Blue but of the alpine '*aegidon*' subspecies, the male showing a broad black border to the wing uppersides. We also caught both Heath Fritillary and False Heath Fritillary and it was interesting to compare the two. The wide range of flora included *Corallorhiza trifida* (Coralroot Orchid), *Aconitum lycoctonum* subsp. *Vulparia* (Wolfsbane), *Gentiana verna* (Spring Gentian) and *Gymnadenia odoratissima* (Short-spurred Fragrant Orchid).

Our first full day in the Dolomites had been full of interesting sightings and before returning we stopped at Bar Malga Crocifisso for welcome ice-creams. We got back to Tamion after 5.30pm. We met at 7pm to talk through the day and our plans for the next one before starting our first 'lists' session. At 7.30pm we adjourned for an enjoyable dinner before reconvening to complete our lists. Alan again set the moth trap, however shortly afterwards it started to rain so we kept our fingers crossed for the following morning.

Day 3

Tuesday 3rd July

Gardeccia and the Rosengarten

Weather: After overnight rain a fine and dry day with some sun and high cloud. High of 16 degrees at altitude

There was a good turn-out to inspect the moth trap with people coming and going from 6am. There were a number of new moths to add to our list including Beautiful Golden Y, Netted Pug and Small Chocolate-tip.

We breakfasted at 7.45am to allow us to depart at 8.45am. Driving out of Tamion and just along the lane from the hotel some of the group were treated to a Grey-headed Woodpecker flying from a roadside pine. Our first call was at the supermarket to collect picnic makings and then to the cablecar car park in Vigo di Fassa, securing parking places before it filled up. We ascended the mountain by cablecar from Vigo di Fassa to Ciampiedie enjoying beautiful views from 1997 metres over the Fassa Valley below. Before moving off along the Rosengarten we explored the meadows near the cablecar station. We quickly started to see new butterflies with the first being a stunning Alpine Heath.

After enjoying these meadows we set off to follow the track towards Gardeccia. Our path took us past large stands of *Rhododendron ferrugineum* (Alpenrose) and there were some fabulous mountain views. We stopped to explore a ski ride covered in wild flowers. These included *Saxifraga rotundifolia* (Round-headed Saxifrage), *Valeriana montana* (Mountain Valerian) and *Dianthus monspessulanus* (Fringed Pink). Here we found a number of new butterflies including Mountain Alcon Blue, Large Ringlet and Alpine Skipper. It was a fabulous spot and as the time had passed midday we stayed here for our picnic lunch. Before moving on Robert found an interesting 'blue' which failed to fully meet the details of any butterfly species and after much consideration was recorded as a hybrid between Adonis Blue and Chalk-hill Blue which, according to Collins Butterfly Guide, do occur.

After lunch we continued towards Gardeccia where we made a circuit of the surrounding meadows. Here we again came up trumps with new butterflies including Blind Ringlet, Mountain Clouded Yellow, Mountain Green-veined White and Common Brassy Ringlet. A large boulder had a fine show of *Paederota bonarota* (Bluish Paederota).

Some members set off early for the return walk and everyone reconvened at 4pm at Rifugio Negritella for some well earned refreshments before descending after a most enjoyable day on the Rosengarten.

Unfortunately one of our vehicles developed an engine fault but we managed to limp back to our hotel. The problem couldn't be fixed locally so the vehicle was collected by a recovery vehicle and Alan made the long journey to Bergano to collect a replacement. Meanwhile Paul held the nightly log call meeting and the group enjoyed another delicious evening meal.

Day 4

Wednesday 4th July

San Pellegrino Pass

Weather: After a full moon the day dawned clear and bright. Sunny with some cloud developing later. High of 19 degrees

Even after a bright night with a full moon the moth trap held an interesting selection of moths with several spectacular new ones including Purple-shaded Gem, Spectacle, Gold Spangle and Coxcomb Prominent. We had some extra time to pour over the moths and enjoyed a slightly later breakfast. We then met at the trap at 9am where the new and interesting specimens were shown to everyone before being released. We then boarded our minibuses and set off for another day in the mountains. We made a short stop at the supermarket and arrived at San Pellegrino Pass at 10am, parking near Miralago and next to a superb specimen of *Lilium Martagon* (Martagon Lily).

Our aim for the morning was to check the meadows behind the car park but it took some time to actually leave the parking area with lots of butterflies on the wing which needed checking. Also there were some wet patches on the access track with lots of blues 'puddling'. In the meadow we found Marsh Fritillary of the nominate race and also the '*dibilis*' subspecies which is smaller and darker. There were many Almond-eyed Ringlets which were new for the trip. New plants included *Crepis aurea* (Golden Hawksbeard), *Veratrum album* (White False Helleborine) and *Phyteuma orbiculare* (Round-headed Rampion).

We picnicked at the vehicles then reviewed the morning's findings before setting off for a walk. We didn't get very far because the puddle on the access track now held even more species and they didn't appear concerned at being surrounded by a large group with cameras. We were able to get good views of Alpine Blue, Geranium Argus, Brown Argus, Mazerine Blue, Chalk-hill Blue and Olive Skipper all together. We also added *Gymnadenia albida* (Small White Orchid).

We eventually set off walking and stopped at Miralago Lake to watch hundreds of tadpoles and also good numbers of Common Blue Damselflies. After a pleasant short walk we arrived at Val Dai Be. Here we were treated to numerous Mountain Clouded Yellows together with Ringlets including Common Brassy, Woodland, Almond-eyed and Blind. After a productive stop we returned towards the vehicles and called at Ristorante Bar Miralago for refreshments before the journey back to Tamion

We met at 6.30pm, a little earlier than usual, for our nightly get together and completed the log call before dinner. After enjoying another delicious evening meal we gathered again at 9.15pm.

Brian and Robert had their bat detectors so we first walked along the lane to the main road and then in failing light walked back checking the wall and listening for bats. In the wall we found two female Glow-worms, both showing their luminous biofluorescence to attract mates. Both were successful because we also found winged males with the females. As we got back toward the lights of the hamlet the bat detectors started to crackle and the frequencies suggested the presence of both Pipistrelle and Serotine bats.

We then went and checked the moth trap to see if there were any early arrivals. We found the trap quite active with a number of moths around including Saxon, Broken-barred Carpet and Grey Mountain Carpet. At 10.30pm we retired with the prospect of an interesting time in the morning checking the trap contents.

Day 5

Thursday 5th July

Sella Pass

Weather: Fine but cloudy start to the day with a short shower at 9am. At altitude mainly dry, but cooler at 16 degrees, with another shower late morning. Some sun in the afternoon, then thunder and hail at 4pm. Warmer and dry in the valley

From 6am there was a good turnout for the moth trap inspection. With a cloudy night moths were more numerous both in the trap and on the hotel wall. We recorded over a dozen new species for the trip including a splendid Scotch Annulet.

At 8.45am we met at the moth trap to view the new moths before they were released. Whilst this was happening the sky darkened and we had a short, sharp shower. We boarded our mini-buses at 9am and set off for the Sella Pass. We made a quick supermarket stop in Vega di Fassa then headed north along the Fassa Valley. At Canazei we turned west and in a few kilometres climbed over 750 metres up 23 marked Tornanti (hairpin bends) to Sella Pass at 2244m parking just over the summit near Rifugio Passo Sella. Before leaving the vehicles we had good views of our first Alpine Marmot and the botanists in the group were pleased with the array of alpine flowers as we were above the tree line in the sub-montane belt. We found *Salix reticulata* (Net-leaved Willow), *Silene acaulis* (Moss Campion), *Alchemilla alpina* (Alpine Ladies-mantle), and *Gymnadenia rubra* (Red Vanilla Orchid).

At 10.20am we set off across the mountain side towards the imposing mass of Langkofel. The weather was overcast so butterflies were keeping low. Some of the group concentrated on plants, others birds and hardy ones kept searching for moths and butterflies. Some of our new butterfly species included Peak White, Rosy Grizzled Skipper and Bright-eyed Ringlet. The Shepherd/Mountain Fritillary identification caused a challenge as both were present in reasonable numbers. Due to the altitude we also found some new birds; White-winged Snowfinch and Ring Ouzel

We arrived back at the vehicles at 12.30pm for lunch. After our picnic the group split with some who had missed the Snowfinches earlier going for another look. Meanwhile the rest of the group set off to explore the track behind Rifugio Passo Sella in an area known as the City of Stone. Here it was rockier with a few smaller pine trees. We didn't get very far before finding a small pasture area in the sun with numerous butterflies on the wing and some excellent alpine flora which kept the group occupied for a couple of hours. A splendid new butterfly was Lesser Mountain Ringlet which has a small range limited to the central European Alps.

Some of the best flowers were *Potentilla nitida* (Pink Potentilla) and *Leontopodium alpinum* (Edelweiss), but we also found *Gentiana Bavarian* (Bavarian Gentian), *Daphne striata* (a Daphne) and *Potentilla aurea* (Golden Cinquefoil). At 3.45pm with skies darkening we adjourned for coffee at the Rifugio and just in time as there was a loud clap of thunder and a hail shower. We left the mountains and descended into clearer, warmer air and got back to our hotel in Tamion at 5pm. Everyone agreed it had been a wonderful day in the high Dolomites!

Our log meeting again started at 7pm, continuing after dinner. Tonight, using computers, we spent some time putting names to moths that group members had photographed over the last few days which still needed to be identified.

Day 6

Friday 6th July

Costalunga Pass and Sud Tirol

Weather: Fine start to the day but heavy cloud quickly developing with thunder and lightning at 7.30am followed by rain till 1pm. Afternoon warm with sunny periods

The hardy moth core was again out by 6am checking the overnight haul with other members of the group coming and going. Again there were new additions to the trip list including Royal Mantle, Feathered Beauty and Purple Clay. As 7.30am approached the clouds thickened and following claps of thunder and flashes of lightening the rain started. That was the signal for breakfast.

At 9am we met outside the hotel to view the interesting moths from the trap. It was still raining but we were heading to a lower altitude so we set off hoping for better weather lower down. Once on the move we headed west over the Costalunga Pass at 1752 metres and down the South Tirol towards Bolzano. Our first stop was below Ponte Nova at 880 metres. We donned our waterproofs for protection against the heavy drizzle and set off towards a disused quarry area. We passed over a bridge and looking down on the river saw Dippers, and sitting on the top of a tree a Nutcracker. Continuing into the quarry it was obvious that butterflies would not be on the wing so our task was to check the vegetation and we found an interesting selection of wildlife including numerous grasshoppers and crickets, some butterflies and moths, and when Alan and Paul turned over a large piece of board, two Slow Worms which were detained and held by many of the group before being released and the board replaced. A new butterfly was Idas Blue. Alan explained about the absence of a spine on the male fore-leg being a differentiating point from male Silver-studded Blue and most people took the opportunity to use a hand lens to confirm the absence on this insect.

At noon we returned to our vehicles and drove back up the hill, stopping above Ponte Nova at 980 metres at a parking spot next to a long, thin meadow bordered on one side by a tree-lined river, and the other by mixed woodland. Whilst lunch was being prepared Dippers were seen on the river and a Grey Heron flew into a nearby tree. As we were eating our picnic the rain stopped and the sun came out. Immediately the air warmed up and butterflies began to take to the wing. Once lunch was over we set off to walk in the meadow and as we crossed the bridge we were delighted by numerous White Admirals feeding on brambles which afforded good photographic opportunities. We did a circuit of the meadow adding a very fresh Arran Brown to our butterfly list and also a number of other new insects, mainly Longhorn Beetles and Shield Bugs, but also a Snout moth.

At 3.15pm we returned to the vehicles and drove back to Costalunga Pass parking near Pizzeria Antermont. We checked the nearby meadow and there were lots of butterflies on the wing including the 'subalpinus' subsp. of Sooty Copper. It was here that we found a solitary spike of *Phyteuma ovatum* (Dark Rampion). We called at Pizzeria Antermont for refreshments and then boarded the vehicles for our return journey, arriving back at Tamion at 5.15pm. We met before dinner to talk over our day and the arrangements for our last full day. After another delicious dinner we completed our daily log call.

Day 7

Saturday 7th July

Panvecchio National Park

Weather: Fine and dry. Cooler early morning, then warm for the rest of the day. Some cloud over the mountain tops.

The overnight temperature was a little colder than previous nights and as a consequence the moth catch was greatly reduced. We did find a couple of new moths including *Xestia viridescens*, a European species, and Double Square-spot. With a smaller moth catch breakfast was earlier than normal and we left the hotel at 8.45am for a day in the Panvecchio National Park. We were able to take our usual route as the landslip which had closed the road for several weeks had been repaired and the road re-opened the evening before.

We drove down the Fassa Valley to Predazzo. Our first stop was a patch of rough ground beside a builder's yard with a rocky area behind. After a little patience we were delighted by Apollo doing circuits in front of us. Checking the scrubby vegetation was productive with Marbled White, Amanda's Blue and a number of skippers but the other good sighting was Large Blue which sat for everyone to see well.

Happy with our sightings we continued our route and stopped behind Panvecchio National Park Visitor Centre. We checked the meadow and woodland edge opposite the centre and found there were few butterflies but lots of day-flying moths. Two good butterfly sightings were of Thor's Fritillary and Large Wall Brown. Patrick caught a female Wart-biter which was well photographed, then within minutes he caught a male. With the time at noon we used the picnic tables behind the centre for our last Naturetrek picnic then drove to Val Venegia for an afternoon exploring the valley.

Once into the valley the meadows and riverside were alive with butterflies. There were lots of Fritillaries, mainly Dark Green, Shepherd's and Mountain, and it was good to be able to compare them all, especially as it was our first sighting of the female Mountain Fritillary. At the water's edge Rosalind disturbed an Agile Frog. The river gravels were particularly rich in plant life. *Papaver aurantiacum* (Rhaetian Poppy), *Parnassia palustris* (Grass of Parnassus), *Gypsophila repens* (Gypsophila) and *Platanthera bifolia* (Lesser Butterfly Orchid) were all recorded. Some members made it to the Refugio at 1819 metres and saw Alpine Marmot and Alpine Chough. Walking back we saw an Alpine Blue butterfly on the track.

All too soon it was time to return to our hotel after a day in fabulous scenery. We got back at 5.15pm in time for bags and belongings to be sorted in preparation for an early departure the following morning. We met for our last meeting at 7pm. Group members flying from Venice the next day were checked-in over the internet, and our week in the Dolomites was debriefed.

After dinner we adjourned to the bar, and before completing the log Stephano brought in a cake bearing a candle in honour of John's birthday. Genio expertly cut the cake and we all enjoyed a portion. The species log was then completed and we said 'goodbye' to Ute and Patrick who we wouldn't see before departure, and members then retired to bed for an early start the next day.

Day 8

Sunday 8th July

Tamion to Venice Airport

Weather: Sunny with cloudless skies. 32 degrees at Venice Airport

At 6am we had a light breakfast of tea/coffee, cereals and pastries before saying our farewells to Stephano on behalf of the hotel and departed Tamion. Shortly after leaving, people in one of the vehicles spotted a fox, our first on the trip. Our return route took us back over San Pellegrino Pass, past Agordo to Belluno and the A27 Autostrada south. The journey was uneventful but we did spot Nutcracker, Jay and Alpine Swift. We had a comfort stop at a service station and as Alan and Paul were refuelling the vehicles Robert, Bob and John checked the adjoining meadow and found two new butterflies for the trip, Short-tailed Blue and Eastern Bath White.

We then continued towards Venice airport. As we walked from the parking to the terminal we spotted two Italian Wall Lizards. We then had to focus on the task in hand and join the queue for bag drop and security. Everyone said their farewells to Alan who was staying in Italy to lead another tour and the remainder of the group accompanied Paul for the BA flight back to London Gatwick.

These days many participants on tours use digital cameras to record scenery and sightings. Whilst most of the identifications are made in the field, one or two are made later from photographs. Alan and Paul had been helping Patrick label some of his moth and butterfly pictures when a new butterfly species for the trip was identified as a Dingy Skipper seen on the Sella Pass.

A group is only as good as the people who form it and thanks must go to all members who got on well together, sharing knowledge and expertise to enhance the overall enjoyment of the trip. Special thanks must go to Kevin for his enthusiasm with the moths, and to Bob for keeping an eye on the birds. Hopefully everyone had an enjoyable week and saw many new species in a spectacular environment.

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Species List

Butterflies

BUTTERFLIES LOCATION CODES:

<u>Location</u>	<u>Elevation</u>	<u>Code</u>	<u>Location</u>	<u>Elevation</u>	<u>Code</u>
Bellunesi National Park	440m	B	Eggental	880-980m	E
Tamion	1548m	T	Costalunga Pass	1752m	C
Val di Monzoni	1526m	M	Sella Pass	2213m	S
Rosengarten	1997m	R	San Pellegrino Pass	1920m	SP
Predazzo	1018m	Pr	Venice Airport & A27 Services		V
Panvecchio National Park	1450m	Pr			

The systematic order and scientific names follow Collins Butterfly Guide (Tolman & Lewington 2009)

	Common name	Scientific name	July										
			1	2	3	4	5	6	7	8			
		<u>Papilionidae</u>											
1	Apollo	<i>Parnassius apollo</i>										Pr	
		<u>Pieridae</u>											
2	Black-veined White	<i>Aporia crataegi</i>		M	R							P	
3	Small White	<i>Artogeia rapae</i>				SP			E			Pr	
4	Southern Small White	<i>Artogeia manni</i>	B		R								
5	Mountain Green-veined White	<i>Artogeia bryoniae</i>			R								
6	Green-veined White	<i>Artogeia napi</i>		T,M	R	SP							
7	Eastern Bath White	<i>Pontia edusa</i>											V
8	Peak White	<i>Pontia callidice</i>						S					
9	Mountain Clouded Yellow	<i>Colias phicomone</i>			R	SP						P	
10	Berger's Clouded Yellow	<i>Colias alfacariensis</i>	B			SP			T				
11	Clouded Yellow	<i>Colias crocea</i>	V	T	R	SP	S		E		P		V
12	Brimstone	<i>Gonepteryx rhamni</i>	B										
13	Wood White	<i>Leptidea sinapis</i>	B	T,M		SP			E		P		V
		<u>Lycaenidae</u>											
14	Small Copper	<i>Lycaena phlaeas</i>	B										
15	Sooty Copper	<i>Lycaena tityrus</i>		T	R								
15a	subspecies	<i>Lycaena tityrus subalpinus</i>							C				
16	Short-tailed Blue	<i>Everes argiades</i>											V
17	Little Blue	<i>Cupido minimus</i>		M	R			S			P		
18	Mountain Alcon Blue	<i>Maculinea rebeli</i>			R								
19	Large Blue	<i>Maculinea arion</i>										Pr	
20	Silver-studded Blue	<i>Plebejus argus aegidon</i>		M									
21	Idas Blue	<i>Plebejus idas</i>							E				
22	Geranium Argus	<i>Eumedonia eumedon</i>		M	R	SP			C				
23	Brown Argus	<i>Aricia agestis</i>				SP							
24	Alpine Blue	<i>Albulina orbitulus</i>		M	R	SP						P	
25	Mazarine Blue	<i>Cyaniris semiargus</i>	T	T,M	R	SP	S		C		P		
26	Amanda's Blue	<i>Agrodiaetus amandus</i>	T	T		SP			E,C		Pr		
27	Chalkhill Blue	<i>Lysandra coridon</i>		T	R	SP			T				
27a	Adonis/Chalkhill Blue Hybrid				R								
28	Common Blue	<i>Polyommatus icarus</i>	V		R,T								

	Common name	Scientific name	July							
			1	2	3	4	5	6	7	8
		<u>Riodinidae</u>								
29	Duke of Burgundy	<i>Hamearis lucina</i>	B							
		<u>Nymphalidae</u>								
30	White Admiral	<i>Limentis camilla</i>	B					E		
31	Small Tortoiseshell	<i>Aglais urticae</i>	T	T	R	SP	S	C	P	
32	Red Admiral	<i>Vanessa atalanta</i>		T					Pr,P	
33	Comma Butterfly	<i>Polygonia c-album</i>						E		
34	Dark Green Fritillary	<i>Argynnis aglaja</i>		T,M		SP,T			P	
35	High Brown Fritillary	<i>Argynnis adippe</i>	B							
36	Shepherd's Fritillary	<i>Boloria pales</i>			R	SP	S		P	
37	Mountain Fritillary	<i>Boloria napaea</i>					S		P	
38	Titania's Fritillary	<i>Clossiana titania</i>		T		SP,T		C	P	
39	Pearl-bordered Fritillary	<i>Clossiana euphrosyne</i>		T				E		
40	Small Pearl-bordered Fritillary	<i>Clossiana selene</i>		M						
41	Thor's Fritillary	<i>Clossiana thore</i>		M					P	
42	False Heath Fritillary	<i>Melitaea diamina</i>		M						
43	Heath Fritillary	<i>Mellicta athalia</i>		T,M		T		E	Pr	
44	Marsh Fritillary	<i>Euphydryas aurinia</i>				SP				
44a	subspecies	<i>Euphydryas aurinia debilis</i>				SP	S			
		<u>Satyrinae</u>								
45	Marbled White	<i>Melanargia galathea</i>	B	T		T			Pr	
46	Arran Brown	<i>Erebia ligea</i>						E		
47	Large Ringlet	<i>Erebia euryale ocellaris</i>			R					
48	Lesser Mountain Ringlet	<i>Erebia melampus</i>					S			
49	Blind Ringlet	<i>Erebia pharte</i>			R	SP	S	C		
50	Woodland Ringlet	<i>Erebia medusa</i>		T,M						
50a	subspecies	<i>Erebia medusa hippomedusa</i>		T	R	SP	S	C	Pr	
51	Almond-eyed Ringlet	<i>Erebia alberganus</i>				SP			P	
52	Common Brassy Ringlet	<i>Erebia cassiodes</i>			R	SP	S		P	
53	Bright-eyed Ringlet	<i>Erebia oeme</i>					S	C	P	
54	Meadow Brown	<i>Maniola jurtina</i>	B	T		SP				V
55	Ringlet	<i>Aphantopus hyperantus</i>						E		
56	Small Heath	<i>Coenonympha pamphilus</i>		T,M		T		C	P	V
57	Alpine Heath	<i>Coenonympha gardetta</i>			R	SP	S	C	P	
58	Speckled Wood	<i>Pararge aegeria</i>							P	
59	Large Wall Brown	<i>Lasiommata maera</i>				T		T	P	
		<u>Hesperiidae</u>								
60	Large Grizzled Skipper	<i>Pyrgus alveus</i>		T	R	SP				
61	Warren's Grizzled Skipper	<i>Pyrgus warrensis</i>			R			C	P	
62	Olive Skipper	<i>Pyrgus serratalae</i>		T,M	R	SP	S	C	P	
63	Rosy Grizzled Skipper	<i>Pyrgus onopordi</i>					S			
64	Alpine Grizzled Skipper	<i>Pyrgus andromedae</i>			R					
65	Dingy Skipper	<i>Erynnis tages</i>					S			
66	Chequered Skipper	<i>Carterocephalus palaemon</i>		T						
67	Essex Skipper	<i>Thymelicus lineola</i>		T				E	Pr	
68	Small Skipper	<i>Thymelicus sylvestris</i>	B	T				E	Pr	
69	Silver-spotted Skipper	<i>Hesperia comma</i>	B	T						
70	Large Skipper	<i>Ochlodes venatus</i>		T		T		E	P	

Moths (T = trap, F = field)

	Bradley No.	Common name	Scientific name	July								
				1	2	3	4	5	6	7	8	
		MICRO MOTHS:										
1	130	Incurvariidae family	<i>Incurvaria mascutella</i>					F				
2	189	Bagworm	<i>Epichnopterix plumella</i>		F							
3	229	Tineidae family	<i>Manopis obviella</i>			T						
4	409a	Argyresthiidae family	<i>Argyresthia trifasciata</i>								T	
5	421	Argyresthiidae family	<i>Argyresthia bonnetella</i>								T	
6	426	Apple Ermine	<i>Yponomeuta malinellus</i>					T				
7	465a	A Diamond backed moth	<i>Plutella haasi</i>			T						
8	530	Coleophoridae family	<i>Coleophora lixella</i>			T						
9	657	Oecophorid family	<i>Hypercallia citrinalis</i>			T						
10	970	Barred Fruit-tree Tortrix	<i>Pandemis cerasana</i>					F				
11	992	Tortricidae family	<i>Clepsis ruriana</i>					T	T			
12	1024	Light Grey Tortrix	<i>Cnephasia incertana</i>				T	T	T	T		
13	1126	Tortricidae family	<i>Ancylis badiana</i>						T			
14	--	Tortricidae family	<i>Epiblema sp</i>								T	
15	1205	Bud Moth	<i>Spilonata ocellana</i>					T				
16	1296	Crambid Grass Moth family	<i>Crambus silvella</i>					T				
17	1297	Crambid Grass Moth family	<i>Crambus Uliginosellus</i>					T				
18	1300	Crambid Grass Moth family	<i>Crambus pratella</i>			T	T	T			T,F	
19	1301	Crambid Grass Moth family	<i>Crambus lathoniellus</i>		T	T				T		
20	1310	Crambid Grass Moth family	<i>Catoptria permutatellus</i>		T,F	T		T	T			
21	1313	Crambid Grass Moth family	<i>Catoptria pinella</i>		T,F		F	T	T	T	T,F	
22	1314	Crambid Grass Moth family	<i>Catoptria margaritella</i>			T					T	
23	1339	Crambid family	<i>Eudonia murana</i>				T			T		
24	1359	Crambid family	<i>Cynaeda dentalis</i>	F								
25	--	Crambid family	<i>Pyrausta aerealis</i>			T,F	F	T,F	F	F	F	
26	1367	Crambid family	<i>Pyrausta cingulata</i>		F							
27	1371	Crambid family	<i>Sitochroa verticalis</i>							F		
28	1376	Small Magpie	<i>Anania hortulata</i>							F		
29	1378	Crambid family	<i>Anania coronata</i>				T					
30	1379	Crambid family	<i>Anania terrealis</i>					T	T			
31	1394	Crambid family	<i>Udea alpinalis</i>		F	F	F	F	F	F		
32	1396	Crambid family	<i>Mecyna flavalis</i>							F		
33	1398	Rush Veneer	<i>Nomophila noctuella</i>			T	T,F	T,F	T,F	T,F	F	
34	1441	Pyralid	<i>Onocera semirubella</i>							F		
35	1454	Spruce Cone Worm	<i>Dioryctria abietella</i>							T		
36	1454a	Pyralid	<i>Dioryctria schuetzeella</i>		T			T	T			
37	1454b	Pyralid	<i>Dioryctria sylvestrella</i>		T	T						
38	--	Pyralid	<i>Catastia marginea</i>			F						
39	1501	Triangle Plume	<i>Platyptilia gonodactyla</i>		T	T						
40	1504	Yarrow Plume	<i>Gillmeria pallidactyla</i>			F	F					
41	1510	Thyme Plume	<i>Merrifieldia leucodactyla</i>		F					F		
		MACRO MOTHS:										
1	163	Forester	<i>Adscita statures</i>				F					
2	169	Six-spot Burnet	<i>Zygaena filipendulae</i>		F		F		F	F		
3	170	Five-spot Burnet	<i>Zygaena trifolii</i>						F			
4	171	Narrow-bordered Five-spot Burnet	<i>Zygaena lonicerae</i>		F						F	
5	172	Transparent Burnet	<i>Zygaena purpuralis</i>			F						
6	1639	Pine-tree Lappet	<i>Dendrolimus pini</i>		T	T	T				F	

	Bradley No.	Common name	Scientific name	July							
				1	2	3	4	5	6	7	8
7	1673	Small Emerald	<i>Hemistola chrysoprasaria</i>					F			
8	--	Unnamed Geometrid	<i>Rhodostrophia vibicaria</i>					T	F		
9	1692	Lesser Cream Wave	<i>Scopula immutata</i>		T			T			
10	1705	Dwarf Cream Wave	<i>Idaea fuscovenosa</i>				T		F		
11	1713	Riband Wave	<i>Idaea aversata</i>					T		T	
12	1722	Flame Carpet	<i>Xanthorhoe designata</i>			T					
13	1727	Silver-ground Carpet	<i>Xanthorhoe montanata</i>		T,F	T,F	F	T,F	T,F	T	
14	1728	Garden Carpet	<i>Xanthorhoe fluctuata</i>					T	F	T	
15	1732	Shaded Broad-bar	<i>Scotopteryx chenopodiata</i>		T	T			T,F		
16	1736	Royal Mantle	<i>Catarhoe cuculata</i>						T		
17	1737	Small Argent and Sable	<i>Epirrhoe tristata</i>			F		F			
18	1738	Common Carpet	<i>Epirrhoe alternata</i>			F					
19	1744	Grey Mountain Carpet	<i>Entephria caesiata</i>		T	T	T	T		T	
20	1748	Beautiful Carpet	<i>Mesoleuca albicillata</i>		T						
21	1759	Small Phoenix	<i>Ecliptopera silaceata</i>					T			
22	1764	Common Marbled Carpet	<i>Chloroclysta truncata</i>		T		T	T	T	T	
23	1769	Spruce Carpet	<i>Thera britanica</i>		T	T		T	T	T	
24	1773	Broken-barred Carpet	<i>Electrophaes corylata</i>		T	T		T	T		
25	1779	Ruddy Highflyer	<i>Hydriomena ruberata</i>						T		
26	1782	Fern	<i>Horisme tersata</i>		T	T	T	T	T	T	
27	1785	Barberry Carpet	<i>Pareulype berberata</i>		T			T			
28	1801	Barred Carpet	<i>Perizoma taeniata</i>					T			
29	1803	Small Rivulet	<i>Perizoma alchemillata</i>		T	T,F		T	T		
30	1806	Pretty Pinion	<i>Perizoma blandiata</i>			T,F					
31	1807	Grass Rivulet	<i>Perizoma albulata</i>			F		F			
32	1809	Twin-spot Carpet	<i>Perizoma didymata</i>			F		T			
33	1823	Netted Pug	<i>Eupithecia venosata</i>			T					
34	1827	Freyer's Pug	<i>Eupithecia intricata</i>		T	T		T	T	T	
35	1838	Tawny-speckled Pug	<i>Eupithecia icterata</i>				T				
36	1870	Chimney Sweeper	<i>Odezia atrata</i>	F	T,F	T,F	F		F	F	
37	1873	Welsh Wave	<i>Venusia cambrica</i>						T	T	
38	1887	Clouded Border	<i>Lomaspiis marginata</i>		T			T	T		
39	1893	Tawny-barred Angle	<i>Macararia liturata</i>		T	T	T	T		T	
40	1894	Latticed Heath	<i>Chiasma clathrata clathrata</i>		F	F	F	F	T,F		
41	1906	Brimstone Moth	<i>Opistograptis luteolata</i>					T	T		
42	1909	Speckled Yellow	<i>Pseudopanthera macularia</i>			F	F				
43	--	Yellow Banded	<i>Psodos quadriferia</i>			F		F			
44	1920	Scalloped Hazel	<i>Odontopera bidentata</i>					T		T	
45	1931	Peppered Moth	<i>Biston betularia</i>					T	T		
46	1937	Willow Beauty	<i>Peribatodes rhomboidaria</i>			F		T		T	
47	1937a	Feathered Beauty	<i>Peribatodes secundaria</i>						T		
48	1941	Mottled Beauty	<i>Alcis repandata repandata</i>		T	T,F	T		T	T	
49	1949	Square Spot	<i>Paradarisa consonaria</i>		T		T	T	T	T	
50	1955	Common White Wave	<i>Cabera pusaria</i>						F		
51	1956	Common Wave	<i>Cabera exanthemata</i>			T	T,F	F			
52	1962	Barred Red (green form)	<i>Hylaea fasciata prasinaria</i>		T	T		T	T,F		
53	1963	Scotch Annulet	<i>Gnophos obfuscatus</i>					T			
54	1964	Annulet	<i>Charissa obscurata</i>		T	T,F		T	T	T	
55	1965	Black Mountain Moth	<i>Glacies coracina</i>					F		F	
56	1984	Hummingbird Hawkmoth	<i>Macroglossum stellatarum</i>			F					
57	2001	Large Dark Prominent	<i>Notodonta torva</i>			T					

	Bradley No.	Common name	Scientific name	July								
				1	2	3	4	5	6	7	8	
58	2008	Coxcomb Prominent	<i>Ptilodon capucina</i>				T					
59	2017	Small Chocolate-tip	<i>Clostera pigra</i>			T						
60	2039	Red-necked Footman	<i>Atolmis rubricolis</i>		T	T	T	T	T			
61	2050	Common Footman	<i>Eilema lurideola</i>				T					
62	2051	Four-spotted Footman	<i>Lithosia quadra</i>		T							
63	2059	Clouded Buff	<i>Diacrisia sannio</i>		T,F	T	T		T			
64	2064	Ruby Tiger	<i>Phragmatobia fuliginosa</i>				F					
65	2069	Cinnabar	<i>Tyria jacobaeae</i>		F						F	
66	2070	Nine Spotted	<i>Amata phegea</i>	F							F	
67	2088	Heart and Club	<i>Agrotis clavis</i>				T	T	T	T		
68	2089	Heart and Dart	<i>Agrostis exclamationis</i>		T	T	T	T	T	T	T	
69	2091	Dark Sword-grass	<i>Agrostis ipsilon</i>		T		T	T	T			
70	2107	Large Yellow Underwing	<i>Noctua pronuba</i>		T		T				T	
71	2110	Broad-bordered Yellow Underwing	<i>Noctua fimbriata</i>		T					T	T	
72	2118	True Lover's Knot	<i>Locophotia porphyrea</i>		T	T	T	T	T	T	T	
73	2120	Ingrailed Clay	<i>Diarsia mendica</i>		T	T	T	T	T	T	T	
74	2122	Purple Clay	<i>Diarsia brunnea</i>							T		
75	2126	Setaceous Hebrew Character	<i>Xestia c-nigrum</i>					T				
76	2128	Double square-spot	<i>Xestia triangulum</i>								T	
77	--	Unnamed Noctuid	<i>Xestia viridescens</i>		T						T	
78	2137	Great Brocade	<i>Eurios occulta</i>		T	T	T	T	T	T	T	
79	2138	Green Arches	<i>Anaplectoides prasina</i>		T	T	T	T	T	T	T	
80	2147	Shears	<i>Hada plejeba</i>		T	T	T			T		
81	2153	Bordered Gothic	<i>Heliophobus reticulata</i>		T		T	T	T			
82	2156	Beautiful Brocade	<i>Lacanoba contigua</i>		T	T						
83	2162	Glaucous Shears	<i>Papestra biren</i>			T	T					
84	2163	Broom Moth	<i>Melandra pisi</i>		T	T	T	T			T	
85	2170	Varied Coronet	<i>Hadena compta</i>		T							
86	2192	Brown-line Bright-eye	<i>Mythimna conigera</i>				T	T			T	
87	2194	White-point	<i>Mythimna albipuncta</i>					T				
88	2202	L-album Wainscot	<i>Mythimna l-album</i>		T							
89	2205	Shoulder-striped Wainscot	<i>Mythimna comma</i>				T				F	
90	2250	Dark Brocade	<i>Bepharita adusta</i>		T	T	T	T	T			
91	2287	Scarce Dagger	<i>Acronicta auricoma</i>		T							
92	2289	Knot Grass	<i>Acronicta rumicis</i>		T							
93	2302	Brown Rustic	<i>Rusina ferruginea</i>		T		T			T	T	
94	2318	Dun-bar	<i>Cosmia trapezina</i>					T				
95	2320	Saxon	<i>Hyppa rectilinea</i>		T	T	T	T	T			
96	2321	Dark Arches	<i>Apamea monoglypha</i>							T		
97	2323	Reddish Light Arches	<i>Apamea sublustris</i>		T	T	T	T	T	T	T	
98	2326	Clouded Bordered Brindle	<i>Apamea crenata</i>					T			T	
99	2337	Marbled Minor agg.	<i>Oligia strigilis (Complex)</i>		T	T	T	T	T	T	T	
100	2342	Rosy Minor	<i>Mesoligia literosa</i>					T	T			
101	2381	Uncertain	<i>Hoplodrina alsines</i>		T	T	T	T	T	T	T	
102	2385	Small Mottled Willow	<i>Spodoptera exigua</i>			T						
103	2438	Purple-shaded Gem	<i>Euchalcia variabilis</i>				T					
104	2441	Silver Y	<i>Autographa gamma</i>		T,F	F	F				F	
105	2442	Beautiful Golden Y	<i>Autographa pulchrina</i>			T		T	T			
106	2444	Gold Spangle	<i>Autographa bractea</i>				T,F			T		
107	--	Alpine Y	<i>Syngrapha devergens</i>			T		T	T			
108	2450	Spectacle	<i>Abrostola tripartita</i>				T		T			

	Bradley No.	Common name	Scientific name	July								
				1	2	3	4	5	6	7	8	
109	2463	Burnet Companion	<i>Euclidia glyphica</i>		F							
110	2466	Blackneck	<i>Lygephila pastinum</i>		T						F	
111	--	Unnamed Noctuid	<i>Panthea coenobita</i>		T		T	T	T			
112	2477	Snout	<i>Hypena probascidalis</i>						F			
113	--	(pearly white moth)	<i>Lithostege farinata</i>		T,F	F	T,F	F	T,F	F		

Plants

Scientific name**PTERIDOPHYTES****Aspleniaceae***Asplenium ruta-muraria**Asplenium viride**Asplenium trichomanes***Blechnaceae***Blechnum spicant***Dennstaeditiaceae***Pteridium aquilinum***Dryopteridaceae***Dryopteris carthusiana**Dryopteris filix-mas**Polystichum lonchitis***Ophioglossaceae***Botrychium lunaria***Woodsiaceae***Athyrium filix-femina**Cystopteris fragilis***PINOPSIDA****Cupressaceae***Juniperus communis**Juniperus communis subsp. alpina***Pinaceae***Larix decidua**Picea abies subsp. abies**Pinus cembra**Pinus mugo**Pinus nigra subsp. nigra**Pinus sylvestris***Common name****FERNS & ALLIES****Spleenwort family**

Wall Rue

Green Spleenwort

Maidenhair Spleenwort

Hard-fern Family

Hard-fern

Bracken Family

Bracken

Buckler-fern Family

Narrow Buckler-fern

Male-fern

Holly-fern

Adder's-tongue Family

Moonwort

Lady-fern Family

Lady Fern

Brittle Bladder-fern

CONIFERS**Juniper Family**

Common Juniper

Dwarf Juniper

Pine Family

European Larch

Spruce

Arolla Pine

Dwarf Mountain Pine

Austrian or Black Pine

Scots Pine

MAGNOLIOPSIDA**FLOWERING PLANTS****Magnoliidae****Apiaceae**

Angelica sylvestris
Anthriscus sylvestris
Chaerophyllum hirsutum
Daucus carota
Heracleum sphondylium
Laserpitium latifolium
Ligusticum mutellina
Pimpinella major

Asclepiadaceae

Vincetoxicum hirundinaria

Asteraceae

Achillea clavennae
Achillea millefolium
Antennaria carpathica
Antennaria dioica
Arnica montana
Aster alpinus
Aster bellidiastrum
Bupthalmum salicifolium
Carlina acaulis
Centaurea pseudophrygia
Cirsium erisithales
Cirsium heterophyllum
Cirsium palustre
Crepis aurea
Erigeron uniflorus
Homogyne alpina
Hypochaeris uniflora
Jacobaea (Senecio) alpinus
Leontopodium alpinum
Leucanthemum vulgare
Petasites alba
Pilosella aurantiaca
Pilosella officinarum agg.
Senecio alpinus
Senecio abrotanifolius
Senecio incanus subsp. *carniolicus*
Senecio squalidus
Senecio vulgaris
Solidago virgaurea
Taraxacum agg.
Tephrosieris longifolia (*S. ovirensis*)
Tolpis staticifolia
Tragopogon dubius

Berberidaceae

Berberis vulgaris

Carrot Family

Wild Angelica
 Cow Parsley
 Hairy Chervil
 Wild Carrot
 Hogweed
 Broad-leaved Sermountain
 Alpine Lovage
 Greater Burnet-saxifrage

Milkweed Family

Swallow-wort

Daisy Family

Silvery Milfoil
 Yarrow
 Carpathian Cat's-foot
 Cat's-foot
 Arnica
 Alpine Aster
 False Aster
 Yellow Oxeye
 Stemless Carlina Thistle
 Wig Knapweed
 Yellow Melancholy Thistle
 Melancholy Thistle
 Marsh Thistle
 Golden Hawk's-beard
 One-flowered Fleabane
 Alpine Colt's-foot
 Giant Cat's-ear
 Alpine Ragwort
 Edelweiss
 Ox-eye daisy
 White Butterbur
 Fox-and-Cubs
 Mouse-eared Hawkweed
 Alpine Ragwort
 Pinnate-leaved Ragwort
 -
 Rock Ragwort
 Groundsel
 Goldenrod
 Dandelion
 Southern Ragwort
 Tolpis
 a Goat's-beard

Barberry Family

Barberry

Betulaceae

Alnus viridis
Betula pendula

Boraginaceae

Echium vulgare
Myosotis alpestris

Brassicaceae

Alliaria petiolata
Arabis caucasica subsp. *alpina*
Biscutella laevigata
Capsella bursa-pastoris
Cardamine resedifolia
Cardaminopsis halleri subsp. *halleri*

Campanulaceae

Campanula barbata
Campanula glomerata
Campanula rotundifolia
Phyteuma orbiculare
Phyteuma sieberi
Phyteuma spicatum

Caprifoliaceae

Lonicera alpigena
Lonicera nigra
Sambucus racemosa

Caryophyllaceae

Arenaria serpyllifolia subsp. *serpyllifolia*
Cerastium arvense
Cerastium fontanum
Lychnis flos-cuculi
Minuartia sedoides
Minuartia verna
Moehringia ciliata
Silene acaulis
Silene alpestris
Silene dioica
Silene vulgaris
Stellaria media

Chenopodiaceae

Chenopodium bonus-henricus

Cistaceae

Helianthemum nummularium

Clusiaceae

Hypericum richeri

Crassulaceae

Sedum acre
Sedum atratum subsp. *atratum*

Birch Family

Green Alder
Silver Birch

Forget-me-not Family

Viper's-bugloss
Alpine Wood Forget-me-not

Cabbage Family

Garlic Mustard
Alpine Rock-cress
Buckler Mustard
Shepherd's Purse
Mignonette-leaved Bitter-cress
Hallers Rock-cress

Bellflower Family

Bearded Bellflower
Clustered Bellflower
Harebell
Round-headed Rampion
a Rampion
Spiked Rampion

Honeysuckle Family

Alpine Honeysuckle
Black Honeysuckle
Red-berried Elderberry

Pink Family

Thyme-leaved Sandwort
Field Mouse-ear
Common Mouse-ear
Ragged Robin
Mossy Cyphel
Spring Sandwort
Creeping Sandwort
Moss Campion
Alpine Catchfly
Red Campion
Bladder Campion
Common Chickweed

Goosefoot Family

Good King Henry

Rock-rose Family

Rock-rose

St. John's-wort Family

Alpine St. John's-wort

Stonecrop Family

Biting Stonecrop
Dark Stonecrop

Sedum dasyphyllum

Fat-leaved Stonecrop

Dipsacaceae

Knautia dipsacifolia

Knautia arvensis

Scabiosa columbaria

Teasel Family

Wood Scabious

Field Scabious

Small Scabious

Ericaceae

Arctostaphylos uva-ursi

Calluna vulgaris

Loiseleuria procumbens

Rhododendron ferrugineum

Rhododendron hirsutum

Vaccinium myrtillus

Vaccinium vitis-idaea

Heather Family

Bearberry

Heather

Trailing Azalea

Alpenrose

Hairy Alpenrose

Bilberry

Cowberry

Fabaceae

Anthyllis montana

Anthyllis vulneraria agg

Astragalus alpinus

Genista germanica

Hedysarum hedysaroides subsp. exaltatum

Hippocrepis comosa

Lathyrus pratensis

Lotus corniculatus

Onobrychis arenaria

Onobrychis montana

Oxytropis campestris

Oxytropis jacquinii

Trifolium alpinum

Trifolium badum

Trifolium pratense subsp. pratense

Trifolium repens

Vicia cracca

Vicia sepium

Pea Family

Mountain Kidney-vetch

Kidney Vetch

Alpine Milk-vetch

German Greenweed

Italian Sainfoin

Horseshoe Vetch

Meadow Vetchling

Bird's-foot Trefoil

Small Sainfoin

Mountain Sainfoin

Yellow Milk-vetch

Mountain Milk-vetch

Alpine Clover

Brown Clover

Red Clover

White Clover

Tufted Vetch

Bush Vetch

Gentianaceae

Gentiana acaulis

Gentiana barvarica

Gentiana punctata

Gentiana verna

Gentianella germanica

Gentian Family

Trumpet Gentian

Bavarian Gentian

Spotted Gentian

Spring Gentian

Chiltern or German Gentian

Geraniaceae

Geranium phaeum

Geranium pyrenaicum

Geranium sylvaticum

Crane's-bill Family

Dusky Crane's-bill

Hedgerow Crane's-bill

Wood Crane's-bill

Globulariaceae

Globularia cordifolia

Globularia Family

Matted Globularia

Lamiaceae

Ajuga pyramidalis

Clinopodium vulgare

Horminium pyrenaicum

Dead-nettle Family

Pyramidal Bugle

Wild Basil

Dragonmouth

<i>Prunella grandiflora</i>	Large-flowered Self-heal
<i>Prunella vulgaris</i>	Self-heal
<i>Salvia pratensis</i>	Meadow Clary
<i>Stachys alopecuroides</i>	Yellow Betony
<i>Thymus polytrichus</i>	Wild Thyme

Lentibulariaceae*Pinguicula alpina***Bladderwort Family**

Alpine Butterwort

Linaceae*Linum catharticum***Flax Family**

Purging or Fairy Flax

Onagraceae*Chamerion angustifolium***Willowherb Family**

Rosebay Willowherb

Orobanchaceae*Orobanche gracilis***Broomrape Family**

Slender Broomrape

Papaveraceae*Papaver aurantiacum* (*P. rhaeticum*)*Papaver rhoeas***Poppy Family**

Rhaetian Poppy

Common Poppy

Plantaginaceae*Plantago lanceolata**Plantago major**Plantago media***Plantain Family**

Ribwort Plantain

Greater Plantain

Hoary Plantain

Plumbaginaceae*Armeria maritima* subsp. *alpina***Thrift Family**

Mountain Thrift

Polygalaceae*Polygala alpestris**Polygala chamaebuxus**Polygala vulgaris***Milkwort Family**

Mountain Milkwort

Shrubby Milkwort

Common Milkwort

Polygonaceae*Persicaria bistorta**Persicaria vivipara**Rumex acetosa**Rumex acetosella**Rumex alpinus**Rumex scutatus***Knotweed Family**

Bistort

Alpine Bistort

Sorrel

Sheep's Sorrel

Monk's Rhubarb

French Sorrel

Primulaceae*Anagallis arvensis**Primula farinosa**Primula veris***Primrose Family**

Scarlet Pimpernel

Bird's-eye Primrose

Cowslip

Pyrolaceae*Moneses uniflora**Pyrola minor***Wintergreen Family**

One-flowered Wintergreen

Common Wintergreen

Ranunculaceae*Aconitum lycoctonum* subsp. *vulparia**Aconitum napellus***Buttercup Family**

Wolf's-bane

Common Monk's-hood

Aquilegia atrata
Aquilegia vulgaris
Caltha palustris
Clematis alpina
Ranunculus aconitifolius
Ranunculus acris
Ranunculus bulbosus
Trollius europaeus

Rosaceae

Alchemilla alpina
Alchemilla glabra
Aruncus dioicus
Crataegus monogyna
Filipendula ulmaria
Filipendula vulgaris
Fragaria vesca
Geum urbanum
Potentilla anserina
Potentilla aurea
Potentilla erecta
Potentilla nitida
Rosa pendulina
Rubus fruticosus agg.
Rubus idaeus
Sorbus aria
Sorbus aucuparia

Rubiaceae

Galium verum

Salicaceae

Populus tremula
Salix breviserrata
Salix caprea
Salix herbacea

Saxifragaceae

Parnassia palustris
Saxifraga aizoides
Saxifraga caesia
Saxifraga exarata subsp. *moschata*
Saxifraga oppositifolia
Saxifraga paniculata
Saxifraga rotundifolia

Scrophulariaceae

Bartsia alpina
Linaria alpina
Melampyrum sylvaticum
Paederota bonarota
Pedicularis rostratocapitata
Pedicularis rostratospicata
Pedicularis verticillata
Rhinanthus aristatus

Dark Columbine
Common Columbine
Marsh Marigold
Alpine Clematis
Aconite-leaved Buttercup
Meadow Buttercup
Bulbous Buttercup
Globeflower

Rose Family

Alpine Lady's-mantle
Smooth Lady's-mantle
Goat's-beard Spirea
Hawthorn
Meadowsweet
Dropwort
Wild Strawberry
Wood Avens
Silverweed
Golden Cinquefoil
Tormentil
Pink Cinquefoil
Alpine Rose
Bramble
Raspberry
Whitebeam
Rowan

Bedstraw Family

Ladies Bedstraw

Willow Family

Aspen
Finely-toothed Willow
Goat Willow
Least Willow

Saxifrage Family

Grass of Parnassus
Yellow Mountain Saxifrage
Blue Saxifrage
White Musky Saxifrage
Purple Saxifrage
Live-long Saxifrage
Round-leaved Saxifrage

Figwort Family

Alpine Bartsia
Alpine Toadflax
Wood Cow-wheat
Bluish Paederota
Verticillate Lousewort
Aristate Rattle

<i>Rhinanthus minor</i> agg.	Hay Rattle
<i>Scrophularia canina</i> subsp. <i>hoppii</i>	French Figwort
<i>Veronica alpina</i>	Alpine Speedwell
<i>Veronica beccabunga</i>	Brooklime
<i>Veronica chamaedrys</i>	Germander Speedwell
<i>Veronica officinalis</i>	Heath Speedwell
<i>Veronica spicata</i>	Spiked Speedwell
<i>Veronica serpyllifolia</i> subsp. <i>serpyllifolia</i>	Thyme-leaved Speedwell
<i>Veronica urticifolia</i>	Nettle-leaved Speedwell

Thymelaeaceae

<i>Daphne laureola</i>	Daphne Family Spurge Laurel a Daphne
<i>Daphne striata</i>	

Urticaceae

<i>Parietaria judaica</i>	Nettle Family Pellitory of the Wall Common Nettle
<i>Urtica dioica</i>	

Valerianaceae

<i>Valeriana montana</i>	Valerian Family Mountain Valerian Common Valerian Three-leaved Valerian
<i>Valeriana officinalis</i>	
<i>Valeriana tripteris</i>	

Violaceae

<i>Viola riviniana</i>	Violet Family Common Dog Violet Heartsease
<i>Viola tricolor</i> subsp. <i>subalpina</i>	

Liliidae (Monocotyledons)**Cyperaceae**

<i>Eriophorum angustifolium</i>	Sedge Family Common Cotton-grass Hare's-tail Cotton-grass Black Bog-rush
<i>Eriophorum vaginatum</i>	
<i>Schoenus nigricans</i>	

Liliaceae

<i>Lillium bulbiferum</i> subsp. <i>bulbiferum</i>	Lily Family Orange Lily Martagon Lily St. Bruno's Lily Herb Paris Solomon's-seal Whorled Solomon's-seal Tofield's Asphodel White False Helleborine
<i>Lillium martagon</i>	
<i>Paradisea liliastrum</i>	
<i>Paris quadrifolia</i>	
<i>Polygonatum multiflorum</i>	
<i>Polygonatum verticillatum</i>	
<i>Tofieldia calyculata</i>	
<i>Veratrum album</i>	

Orchidaceae

<i>Coeloglossum viride</i>	Orchid Family Frog Orchid Coralroot Orchid Common Spotted-orchid Broad-leaved Marsh Orchid Small White Orchid Austrian Vanilla Orchid Fragrant Orchid Short-spurred Fragrant Orchid Red Vanilla Orchid Twayblade
<i>Corallorhiza trifida</i>	
<i>Dactylorhiza fuchsii</i>	
<i>Dactylorhiza majalis</i>	
<i>Gymnadenia albida</i>	
<i>Gymnadenia austriaca</i>	
<i>Gymnadenia conopsea</i> agg.	
<i>Gymnadenia odoratissima</i>	
<i>Gymnadenia rubra</i>	
<i>Neottia ovata</i>	

Orchis ustulata
Platanthera bifolia
Traunsteinera globosa

Burnt Orchid
 Lesser Butterfly Orchid
 Round-headed Orchid

Birds (✓ = recorded but not counted, H = heard only)

	Common name	Scientific name	July							
			1	2	3	4	5	6	7	8
1	Mallard	<i>Anas platyrhynchos</i>	1			12			12	4
2	Cattle Egret	<i>Bubulcus ibis</i>	1							
3	Little Egret	<i>Egretta garzetta</i>	1							
4	Grey Heron	<i>Ardea cinerea</i>						1		
5	White Stork	<i>Ciconia ciconia</i>	1							
6	European Honey Buzzard	<i>Pernis apivorus</i>		3	3	1		7	2	1
7	Black Kite	<i>Milvus migrans</i>	3							
8	Eurasian Sparrowhawk	<i>Accipiter nisus</i>							1	
9	Common Buzzard	<i>Buteo buteo</i>	1	1					1	
10	Common Kestrel	<i>Falco tinnunculus</i>	1		2		1		1	
11	Gull sp									2
12	(Feral) Rock Dove	<i>Columba livia</i>	6						2	6
13	Common Wood Pigeon	<i>Columba palumbus</i>	10							4
14	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	2							3
15	Alpine Swift	<i>Tachymarptis melba</i>					5			1
16	Common Swift	<i>Apus apus</i>	6		12	2	10	2	4	6
17	Great Spotted Woodpecker	<i>Dendrocopos major</i>		1	H	H	1	2	1	
18	Black Woodpecker	<i>Dryocopus martius</i>			1					
19	Grey-headed Woodpecker	<i>Picus canus</i>	H		5	H	H			
20	Eurasian Jay	<i>Garrulus glandarius</i>	1							1
21	Eurasian Magpie	<i>Pica pica</i>	1	1	2	2	1	2	1	1
22	Spotted Nutcracker	<i>Nucifraga caryocatactes</i>		2	9	1		1	H	1
23	Alpine Chough	<i>Pyrrhocorax graculus</i>					21		18	
24	Carrion Crow	<i>Corvus corone</i>	4	2	8	4	6	4	4	3
25	Hooded Crow	<i>Corvus cornix</i>	3				2		1	1
26	Willow Tit	<i>Poecile montanus</i>	1	1						
27	Coal Tit	<i>Parus ater</i>	1	1	1				4	
28	European Crested Tit	<i>Lophophanes cristatus</i>		1				1	1	
29	Great Tit	<i>Parus major</i>	2	1	5	1	2	4	1	
30	Eurasian Blue Tit	<i>Cyanistes caeruleus</i>	1	1	3	2			1	
31	Barn Swallow	<i>Hirundo rustica</i>	✓	✓	✓	✓	✓	✓	✓	✓
32	Eurasian Crag Martin	<i>Ptyonoprogne rupestris</i>	2	2	2	4	8	10	10	2
33	Common House Martin	<i>Delichon urbicum</i>	6		20	12	10	10	6	
34	Willow Warbler	<i>Phylloscopus trochilus</i>			1	H				
35	Common Chiffchaff	<i>Phylloscopus collybita</i>	H	H	H	H	H	H	H	
36	Eurasian Blackcap	<i>Sylvia atricapilla</i>	H	H	H	H	H	1	H	
37	Western Orphean Warbler	<i>Sylvia hortensis</i>			2					
38	Goldcrest	<i>Regulus regulus</i>		1	H				6	
39	Eurasian Wren	<i>Troglodytes troglodytes</i>			H			H		
40	Eurasian Nuthatch	<i>Sitta europaea</i>	H	H	H	H		H		
41	Eurasian Treecreeper	<i>Certhia familiaris</i>	1	1		1				
42	Common Starling	<i>Sturnus vulgaris</i>	4	2						1K
43	Ring Ouzel	<i>Turdus torquatus</i>					3			
44	Common Blackbird	<i>Turdus merula</i>	2	2	2	2	4	6	4	
45	Fieldfare	<i>Turdus pilaris</i>	2	12	6	6	8	5	6	

	Common name	Scientific name	July							
			1	2	3	4	5	6	7	8
46	Song Thrush	<i>Turdus philomelos</i>	1	1	2	3				
47	Mistle Thrush	<i>Turdus viscivorus</i>	2	3	2	3	1	1	1	
48	European Robin	<i>Erithacus rubecula</i>				H				
49	Black Redstart	<i>Phoenicurus ochruros</i>	1	1	4	4	11	6	2	
50	Common Redstart	<i>Phoenicurus phoenicurus</i>	2	2	1	2	5	1	1	
51	Whinchat	<i>Saxicola rubetra</i>			4					
52	Northern Wheatear	<i>Oenanthe oenanthe</i>					3			
53	White-throated Dipper	<i>Cinclus cinclus</i>						5		
54	House Sparrow	<i>Passer domesticus</i>	✓	✓	✓	✓	✓	✓	✓	✓
55	Italian House Sparrow	<i>Passer domesticus italiae</i>	✓	✓	✓	✓	✓	✓	✓	✓
56	White-winged Snowfinch	<i>Montifringilla nivalis</i>					5			
57	Dunnock	<i>Prunella modularis</i>				H				
58	Grey Wagtail	<i>Motacilla cinerea</i>		1	2			1	1	
59	White Wagtail	<i>Motacilla alba alba</i>	1		6	7	2		8	
60	Tree Pipit	<i>Anthus trivialis</i>		1	1	1		H		
61	Water Pipit	<i>Anthus spinoletta</i>					6			
62	Common Chaffinch	<i>Fringilla coelebs</i>	2	4	1	2	1	2	2	
63	European Serin	<i>Serinus serinus</i>							2	
64	European Greenfinch	<i>Carduelis chloris</i>						4		
65	Eurasian Siskin	<i>Carduelis spinus</i>							2	
66	European Goldfinch	<i>Carduelis carduelis</i>	2	4	6	2	6	2		
67	Common Redpoll	<i>Carduelis flammea</i>					4			
68	Lesser Redpoll	<i>Carduelis flammea cabaret</i>			1					
69	Common Linnet	<i>Carduelis cannabina</i>					6			
70	Red Crossbill	<i>Loxia curvirostra</i>				4				
71	Eurasian Bullfinch	<i>Pyrrhula pyrrhula</i>		H		H	1	H	H	
72	Yellowhammer	<i>Emberiza citrinella</i>			1					

Mammals

1	Alpine Marmot	<i>Marmota marmote</i>					✓		✓	
2	Red Squirrel	<i>Sciurus vulgaris</i>		✓		✓	✓	✓		
3	Red Deer	<i>Cervus elaphus</i>			✓					
4	Red Fox	<i>Vulpes vulpes</i>								✓
5	Bank Vole	<i>Clethrionomys glareolus</i>	✓							
6	Brown Rat	<i>Rattus norvegicus</i>				✓				
7	Common Pipistrelle Bat	<i>Pipistrellus pipistrellus</i>				✓				
8	Serotine Bat	<i>Eptesicus serotinus</i>				✓		✓		

Reptiles & amphibians

1	Agile Frog	<i>Rana dalmatina</i>							✓	
2	Common Wall Lizard	<i>Podarcis muralis</i>	✓	✓						
3	Italian Wall Lizard	<i>Podarcis sicula</i>			✓					✓
4	Slow worm	<i>Anguis fragilis</i>						✓		

Grasshoppers and Crickets

1	Roesel's Bush-cricket	<i>Matrioptera roeselii</i>						✓		
2	Dark Bush-cricket	<i>Pholidoptera griseoaptera</i>						✓		
3	Bog Bush-cricket	<i>Metrioptera brachyptera</i>	✓							

	Common name	Scientific name	July								
			1	2	3	4	5	6	7	8	
4	Speckled Bush-cricket	<i>Leptophyes punctatissima</i>							✓		
5	Great Green Bush-cricket	<i>Tettigonia viridissima</i>							✓		
6	Wart-biter	<i>Decticus verrucivorus</i>								✓	
7	Green Mountain Grasshopper	<i>Miramella alpina</i>							✓	✓	

Dragonflies & Damselfly

	Common Blue Damselfly	<i>Enallagma cyathigerum</i>					✓				
	Common Goldenring	<i>Cordulegaster boltonii</i>								✓	

Other Insects

	Shield Bugs										
	Forest Bug	<i>Pentatoma rufipes</i>							✓	✓	
	(triangular sides)	<i>Syromastes rhombeus</i>							✓		
	(black/red striped)	<i>Graphosoma italicum</i>							✓	✓	
	Boat Bug	<i>Enoplops scapha</i>							✓		
	Ground Bugs										
		<i>Lygaeus sp</i>							✓		
	Water Bugs										
	Common Pond Skater	<i>Gerris lacustris</i>	✓			✓					
	Hover-flies										
	(black panel in wing)	<i>Volucella pellucens</i>		✓					✓		
	Scorpion Flies										
	Scorpion Fly	<i>Panorpa meridionalis</i>			✓	✓			✓		
	Ichneumons										
	(red)	<i>Ophion luteus</i>		✓		✓			✓		
	Ants										
	Wood Ant	<i>Formica rufa</i>		✓		✓			✓	✓	
	Wasps										
	Common Wasp	<i>Vespa vulgaris</i>		✓		✓					
	European Paper Wasp	<i>Polistes dominula</i>							✓		
	Bees										
	Honey Bee	<i>Apis mellifera</i>	✓	✓	✓	✓			✓	✓	
	White-tailed Bumblebee	<i>Bombus lucorum</i>			✓	✓					
	Buff-tailed Bumblebee	<i>Bombus terrestris</i>	✓	✓					✓	✓	
	Red-tailed Bumblebee	<i>Bombus lapidarius</i>				✓			✓	✓	
	Common Carder Bumblebee	<i>Bombus pascuorum</i>							✓		
	Early Bumblebee	<i>Bombus pratorum</i>		✓							
	Chafers										
	Garden Chafer	<i>Phyllopertha horticola</i>		✓	✓				✓		
	Rose Chafer	<i>Cetonia aurata</i>				✓					
	Bee Beetle	<i>Trichius fasciatus</i>							✓		
	(metallic blue)	<i>Hoplia caerulea</i>		✓					✓		
	Soldier Beetles										
	(black/red head)	<i>Cantharis rustica</i>		✓		✓			✓	✓	
	Common Red Soldier Beetle	<i>Rhagonycha fulva</i>		✓		✓			✓	✓	
	(violet/red hoops)	<i>Trichodes alvearius</i>							✓		
	Glow-worms										
	Glow-worm	<i>Lampyrus noctiluca</i>				✓					
	Ladybirds										
	2-spot Ladybird	<i>Adalia bipunctata</i>	✓						✓	✓	

	Common name	Scientific name	July							
			1	2	3	4	5	6	7	8
	7-spot Ladybird	<i>Coccinella 7-punctata</i>		✓		✓		✓		
	10-spot Ladybird	<i>Adalia 10-punctata</i>							✓	
	Cream-spot Ladybird	<i>Calvia 14-guttata</i>						✓		
	Longhorn Beetles									
	(yellow/black)	<i>Strangalia maculata</i>						✓		
	Pine Longhorn	<i>Monochamus sartor</i>				✓				
	(small) Longhorn Beetle	<i>Cerambycidae sp.</i>						✓		
	Wasp Longhorn	<i>Clytra arietis</i>						✓		
	Spiders									
	Crab Spider	<i>Misumena vatia</i>		✓						
	Nursery Web Spider	<i>Pisuaridae sp.</i>							✓	
	Other insects									
	Harvestman	<i>Opiliones sp.</i>	✓							
	Stonefly	<i>Perlodes microsephela</i>							✓	
	Clegg Fly	<i>Haematoputa pulvialis</i>							✓	
	Click Beetle	<i>Elateridae sp.</i>						✓		
	Ground Beetle	<i>Carabus sp</i>					✓			
	Other Taxa									
	Roman Snail	<i>Helix pomatia</i>	✓					✓	✓	