

Report on the main results of the surveillance under article 17 for annex I habitat types (Annex D)

CODE: 6520

NAME: Mountain hay meadows

1. National Level

1.1 Maps

1.1.1 Distribution Map

Yes

1.1.2 Distribution Method

Estimate based on expert opinion with no or minimal sampling (1)

1.1.3 Year or period

2005-2012

1.1.4 Additional map

No

1.1.5 Range Map

Yes

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

2.2 Published

Continental (CON)

The present Habitat assessment (fields 0.1-3.1) has been compiled by Pierangela Angelini (ISPRA). Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi and Liliana Zivkovic(SBI), Pietro Massimiliano Bianco and Pierangela Angelini (ISPRA, field 2.7.1). Biondi E, Blasi C, Burrascano S, Casavecchia S, Copiz R, Del Vico E, Galdenzi D, Gigante D, Lasen C, Spampinato G, Venanzoni R, Zivkovic L (2009a) Italian interpretation Manual of the habitats (92/43/EEC Directive). Ministero dell'Ambiente e della Tutela del Territorio e del Mare. <http://vnr.unipg.it/habitat/> Blasi et al., 2010. La Vegetazione d'Italia con Carta delle Serie di Vegetazione in scala 1:500000. Palombi ed., Brentan D., Burbello A., Avanzi E., Gasparini S., Laureti L., Bianco P.M., 2008. Carta degli habitat della regione Veneto per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Arpa Veneto. http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura Casella L., Agrillo E., Bianco P.M., Cardillo A., Carbone M., Cattena C., Laureti L., Lugari A., Spada F., 2008. Carta degli habitat della Regione Lazio per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Università degli Studi di Roma "La Sapienza" - Regione Lazio ISPRA, 2011. Dati del sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA, Corine land cover 2006 IV livello. Dati della Rete del sistema Informativo Nazionale Ambientale - SINAnet Oriolo G., Dragan M., Ferneti M., Francescato C., Tomasella M., Giorgi R. 2007. Carta degli habitat della regione Friuli Venezia Giulia per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA-Regione Friuli Venezia Giulia. http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura

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2.3 Range of the habitat type in the biogeographical region or marine region

2.3.1 Surface area - Range (km ²)	27600
2.3.2 Range method used	Estimate based on expert opinion with no or minimal sampling (1)
2.3.3 Short-term trend period	2001-2012
2.3.4 Short-term trend direction	decrease (-)
2.3.5 Short-term trend magnitude	min max
2.3.6 Long-term trend period	
2.3.7 Long-term trend direction	N/A
2.3.8 Long-term trend magnitude	min max
2.3.9 Favourable reference range	area (km ²) operator much more than (>>) unknown No method
2.3.10 Reason for change	Improved knowledge/more accurate data Use of different method

2.4 Area covered by Habitat

2.4.1 Surface area (km ²)	302,62
2.4.2 Year or period	2005-2012
2.4.3 Method used	Estimate based on expert opinion with no or minimal sampling (1)
2.4.4 Short-term trend period	2001-2012
2.4.5 Short-term trend direction	decrease (-)
2.4.6 Short-term trend magnitude	min max
2.4.7 Short term trend method used	Estimate based on expert opinion with no or minimal sampling (1)
2.4.8 Long-term trend period	
2.4.9 Long-term trend direction	N/A
2.4.10 Long-term trend magnitude	min max
2.4.11 Long term trend method used	N/A
2.4.12 Favourable reference area	area (km) operator much more than (>>) unknown No method
2.4.13 Reason for change	Improved knowledge/more accurate data Use of different method

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
roads, motorways (D01.02)	medium importance (M)	N/A
paths, tracks, cycling tracks (D01.01)	low importance (L)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
abandonment of pastoral systems, lack of grazing (A04.03)	low importance (L)	N/A
damage by herbivores (including game species) (K04.05)	medium importance (M)	N/A
skiing, off-piste (G01.06)	medium importance (M)	N/A
species composition change (succession) (K02.01)	low importance (L)	N/A
Urbanised areas, human habitation (E01)	high importance (H)	N/A
skiing complex (G02.02)	high importance (H)	N/A
Mining and quarrying (C01)	high importance (H)	N/A

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motorised vehicles (G01.03)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A

2.5.1 Method used – pressures mainly based on expert judgement and other data (2)

2.6 Main Threats

Threat	ranking	pollution qualifier(s)
roads, motorways (D01.02)	medium importance (M)	N/A
paths, tracks, cycling tracks (D01.01)	low importance (L)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
abandonment of pastoral systems, lack of grazing (A04.03)	low importance (L)	N/A
damage by herbivores (including game species) (K04.05)	medium importance (M)	N/A
skiing, off-piste (G01.06)	medium importance (M)	N/A
species composition change (succession) (K02.01)	low importance (L)	N/A
Urbanised areas, human habitation (E01)	high importance (H)	N/A
skiing complex (G02.02)	high importance (H)	N/A
Mining and quarrying (C01)	high importance (H)	N/A
motorised vehicles (G01.03)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A

2.6.1 Method used – threats expert opinion (1)

2.7 Complementary Information

2.7.1 Species

Achillea stricta
Achillea millefolium subsp. Sudetica
Cardaminopsis halleri
Chaerophyllum hirsutum subsp. Villarsii
Crepis mollis
Geranium sylvaticum
Heracleum sphondylium (aggr.)
Phleum alpinum
Poa alpina
Phyteuma betonicifolium
Phyteuma orbiculare
Rhinanthus alectorolophus
Silene dioica
Trisetum flavescens
Bistorta major (Polygonum bistorta)

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2.7.2 Species method used Selection and evaluation by ISPRA's expert from bibliographical and field research

2.7.3 Justification of % - thresholds for trends

2.7.4 Structure and functions - methods used

Estimate based on expert opinion with no or minimal sampling (1)

2.7.5 Other relevant information

2.8 Conclusions (assessment of conservation status at end of reporting period)

2.8.1 Range assessment Bad (U2)
qualifiers N/A

2.8.2 Area assessment Bad (U2)
qualifiers N/A

2.8.3 Specific structures and functions (incl Species) assessment Bad (U2)
qualifiers N/A

2.8.4 Future prospects assessment Bad (U2)
qualifiers N/A

2.8.5 Overall assessment of Conservation Status Bad (U2)

2.8.5 Overall trend in Conservation Status declining (-)

3. Natura 2000 coverage conservation measures - Annex I habitat types on biogeographical level

3.1 Area covered by habitat

3.1.1 Surface area (km²) min 23,2306 max 23,2306

3.1.2 Method used Complete survey/Complete survey or a statistically robust estimate (3)

3.1.3. Trend of surface area N/A

3.2 Conversation Measures

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Other spatial measures (6.0)	Administrative Recurrent One-off	high importance (H)	Inside	Maintain Enhance Long term
Establish protected areas/sites (6.1)	Administrative	medium importance (M)	Both	Maintain Enhance Long term
Legal protection of habitats and species (6.3)	Administrative	medium importance (M)	Both	Maintain Enhance Long term
Specific single species or species group management measures (7.4)	Administrative	high importance (H)	Both	Maintain Enhance Long term

2.1 Biogeographical Region

Alpine (ALP)

2.2 Published

The present Habitat assessment (fields 0.1-3.1) has been compiled by Pierangela Angelini (ISPRA). Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Cesare

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Lasen(SBI), Pietro Massimiliano Bianco and Pierangela Angelini (ISPRA, field 2.7.1).

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http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura

Biondi E, Blasi C, Burrascano S, Casavecchia S, Copiz R, Del Vico E, Galdenzi D, Gigante D, Lasen C, Spampinato G, Venanzoni R, Zivkovic L (2009a) Italian interpretation Manual of the habitats (92/43/EEC Directive). Ministero dell'Ambiente e della Tutela del Territorio e del Mare. <http://vnr.unipg.it/habitat/>

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Morra di Cella U., Cremonese E., Pari E., Siniscalco C., Amadei M., Angelini P., Cardillo A., 2008. Carta degli habitat della Regione Valle d'Aosta per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - ARPA Valle d'Aosta - Dipartimento Biologia Vegetale Università degli studi di Torino.
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http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura

2.3 Range of the habitat type in the biogeographical region or marine region

2.3.1 Surface area - Range (km ²)	52700
2.3.2 Range method used	Estimate based on expert opinion with no or minimal sampling (1)
2.3.3 Short-term trend period	2001-2012
2.3.4 Short-term trend direction	decrease (-)
2.3.5 Short-term trend magnitude	min max
2.3.6 Long-term trend period	
2.3.7 Long-term trend direction	N/A
2.3.8 Long-term trend magnitude	min max
2.3.9 Favourable reference range	area (km ²) operator more than (>) unkown No method
2.3.10 Reason for change	Improved knowledge/more accurate data Use of different method

2.4 Area covered by Habitat

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2.4.1 Surface area (km ²)	682,12
2.4.2 Year or period	2005-2012
2.4.3 Method used	Estimate based on expert opinion with no or minimal sampling (1)
2.4.4 Short-term trend period	2001-2012
2.4.5 Short-term trend direction	decrease (-)
2.4.6 Short-term trend magnitude	min max
2.4.7 Short term trend method used	Estimate based on expert opinion with no or minimal sampling (1)
2.4.8 Long-term trend period	
2.4.9 Long-term trend direction	N/A
2.4.10 Long-term trend magnitude	min max
2.4.11 Long term trend method used	N/A
2.4.12 Favourable reference area	area (km) operator more than (>) unknown No method
2.4.13 Reason for change	Improved knowledge/more accurate data Use of different method

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
abandonment of pastoral systems, lack of grazing (A04.03)	medium importance (M)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
paths, tracks, cycling tracks (D01.01)	medium importance (M)	N/A
discontinuous urbanisation (E01.02)	medium importance (M)	N/A
skiing complex (G02.02)	medium importance (M)	N/A
skiing, off-piste (G01.06)	low importance (L)	N/A
Erosion (K01.01)	medium importance (M)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A
Mining and quarrying (C01)	medium importance (M)	N/A
Improved access to site (D05)	medium importance (M)	N/A
Urbanised areas, human habitation (E01)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A
Biocenotic evolution, succession (K02)	medium importance (M)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	medium importance (M)	N/A
intensive grazing (A04.01)	medium importance (M)	N/A
Fertilisation (A08)	medium importance (M)	N/A

2.5.1 Method used – pressures mainly based on expert judgement and other data (2)

2.6 Main Threats

Threat	ranking	pollution qualifier(s)
abandonment of pastoral systems, lack of grazing (A04.03)	medium importance (M)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
paths, tracks, cycling tracks (D01.01)	medium importance (M)	N/A
discontinuous urbanisation (E01.02)	medium importance (M)	N/A

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skiing complex (G02.02)	medium importance (M)	N/A
skiing, off-piste (G01.06)	low importance (L)	N/A
Erosion (K01.01)	medium importance (M)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A
Mining and quarrying (C01)	medium importance (M)	N/A
Improved access to site (D05)	medium importance (M)	N/A
Urbanised areas, human habitation (E01)	medium importance (M)	N/A
modification of cultivation practices (A02)	medium importance (M)	N/A
Biocenotic evolution, succession (K02)	medium importance (M)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	medium importance (M)	N/A
intensive grazing (A04.01)	medium importance (M)	N/A
Fertilisation (A08)	medium importance (M)	N/A

2.6.1 Method used – threats

expert opinion (1)

2.7 Complementary Information

2.7.1 Species

Alchemilla spp.

Campanula rhomboidalis

Campanula rotundifolia

Campanula scheuchzeri

Cardaminopsis halleri

Chaerophyllum hirsutum subsp. *Villarsii*

Crepis mollis

Crepis pyrenaica

Geranium sylvaticum

Phyteuma betonicifolium

Phleum alpinum

Phleum rhaeticum

Poa alpina

Rhinanthus alectorolophus

Rhinanthus facchinii

Rumex alpestris

Silene dioica

Trisetum flavescens

Heracleum sphondylium (aggr.)

Bistorta major (= *Polygonum bistorta*)

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2.7.2 Species method used Selection and evaluation by ISPRA's expert from bibliographical and field research

2.7.3 Justification of % - thresholds for trends

2.7.4 Structure and functions - methods used

Estimate based on expert opinion with no or minimal sampling (1)

2.7.5 Other relevant information

2.8 Conclusions (assessment of conservation status at end of reporting period)

2.8.1 Range assessment Inadequate (U1)
qualifiers N/A

2.8.2 Area assessment Inadequate (U1)
qualifiers N/A

2.8.3 Specific structures and functions (incl Species) assessment Bad (U2)
qualifiers N/A

2.8.4 Future prospects assessment Bad (U2)
qualifiers N/A

2.8.5 Overall assessment of Conservation Status Bad (U2)

2.8.5 Overall trend in Conservation Status declining (-)

3. Natura 2000 coverage conservation measures - Annex I habitat types on biogeographical level

3.1 Area covered by habitat

3.1.1 Surface area (km²) min 149,686 max 149,686

3.1.2 Method used Complete survey/Complete survey or a statistically robust estimate (3)

3.1.3. Trend of surface area N/A

3.2 Conversation Measures

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Maintaining grasslands and other open habitats (2.1)	Legal Administrative Recurrent One-off	high importance (H)	Both	Maintain Enhance Long term
Establish protected areas/sites (6.1)	Legal	high importance (H)	Inside	Long term
Legal protection of habitats and species (6.3)	Legal	high importance (H)	Both	Long term Not evaluated
Manage landscape features (6.4)	Legal	high importance (H)	Both	Long term

Notes

Habitat code: 6520 Region code: CON

Field label	Note	User
2.4.1 Surface area	Nel calcolo delle superfici (campi 2.3.1, 2.4.1 e 3.1.1) rientra anche la superficie delle aree comprese nella regione mediterranea	ISPRA_h abitat