

Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

0.1 Member State	IT
0.2.1 Species code	1849
0.2.2 Species name	Ruscus aculeatus
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	N/A

1. National Level

1.1 Maps

1.1.1 Distribution Map	Yes
1.1.1a Sensitive species	No
1.1.2 Method used - map	Estimate based on partial data with some extrapolation and/or modelling (2)
1.1.3 Year or period	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 sources

Mediterranean (MED)

The present species assessment (fields 0.1-2.9) has been compiled by Stefania Ercole and Valeria Giacanelli (Institute for Environmental Protection and Research - ISPRA).

CONTI F., ABBATE G., ALESSANDRINI A., BLASI C., (Eds.) 2005 - An annotated Checklist of the Italian Vascular Flora. Palombi Editori, Roma.

CONTI F., MANZI A., PEDROTTI F., 1997 - Liste Rosse Regionali delle Piante d'Italia. WWF Italia. Società Botanica Italiana. Università di Camerino. Camerino. 139 pp.

GENNAI M., 2012 - *Ruscus aculeatus* L. Inf. Bot. It., 44 (2): 470-471.

MARTINOLI G., 1951 – Studio cariologico sul genere *Ruscus* (Asparagaceae). Caryologia, 4: 86-97.

PIGNATTI S., 1982 - Flora d'Italia, voll. 1-3. Edagricole, Bologna.

REGIONE LIGURIA, 2008 - Carta della Biodiversità (www.ambienteinliguria.it).

ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013 - Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare.

SCOPPOLA A., SPAMPINATO G. (eds.), 2005 - Atlante delle specie a rischio di estinzione. Versione 1.0. CD-Rom enclosed to the volume: SCOPPOLA A., BLASI C. (eds.), Stato delle conoscenze sulla flora vascolare d'Italia. Palombi Editori. Roma.

SOCIETÀ BOTANICA ITALIANA, 2012 - Valutazione nazionale della categoria di rischio di estinzione per specie vegetali di pregio e di interesse conservazionistico. Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Società Botanica Italiana (dati inediti).

2.3 Range

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2.3.1 Surface area - Range (km ²)	128100
2.3.2 Method - Range surface area	Estimate based on partial data with some extrapolation and/or modelling (2)
2.3.3 Short-term trend period	2001-2012
2.3.4 Short-term trend direction	stable (0)
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 approximately equal to (≈) unknown No method Expert judgment
2.3.10 Reason for change	Use of different method

2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit N/A min max
2.4.2 Population size (other than individuals)	Unit number of map 10x10 km grid cells (grids10x10) min 803 max 803
2.4.3 Additional information	Definition of locality Conversion method Problems no data available for the number of individuals
2.4.4 Year or period	2012
2.4.5 Method – population size	Estimate based on partial data with some extrapolation and/or modelling (2)
2.4.6 Short-term trend period	2001-2012
2.4.7 Short term trend direction	stable (0)
2.4.8 Short-term trend magnitude	min max confidence interval
2.4.9 Short-term trend method	Estimate based on partial data with some extrapolation and/or modelling (2)
2.4.10 Long-term trend period	
2.4.11 Long term trend direction	N/A
2.4.12 Long-term trend magnitude	min max confidence interval
2.4.13 Long-term trend method	N/A
2.4.14 Favourable reference population	number operator approximately equal to (≈) unknown No method Expert judgment
2.4.15 Reason for change	Use of different method

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km ²)	
2.5.2 Year or period	
2.5.3 Method used - habitat	Absent data (0)
2.5.4 a) Quality of habitat	Good
2.5.4 b) Quality of habitat - method	expert based
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	stable (0)

Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

2.5.7 Long-term trend period	N/A
2.5.8 Long term trend direction	
2.5.9 Area of suitable habitat (km ²)	
2.5.10 Reason for change	

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
removal of forest undergrowth (B02.03)	medium importance (M)	N/A
forestry clearance (B02.02)	medium importance (M)	N/A
forest exploitation without replanting or natural regrowth (B03)	low importance (L)	N/A
Modification of hydrographic functioning, general (J02.05)	high importance (H)	N/A
Flooding modifications (J02.04)	high importance (H)	N/A
burning down (J01.01)	medium importance (M)	N/A
Agriculture activities not referred to above (A11)	high importance (H)	N/A
use of biocides, hormones and chemicals (A07)	low importance (L)	N/A
Fertilisation (A08)	low importance (L)	N/A
Changes in abiotic conditions (M01)	low importance (L)	N/A
Taking / Removal of terrestrial plants, general (F04)	low importance (L)	N/A
abiotic (slow) natural processes (K01)	low importance (L)	N/A

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

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Forest and Plantation management & use (B02)	medium importance (M)	N/A
removal of forest undergrowth (B02.03)	medium importance (M)	N/A
forestry clearance (B02.02)	medium importance (M)	N/A
hand collection (F04.02.02)	medium importance (M)	N/A
reduction or loss of specific habitat features (J03.01)	medium importance (M)	N/A
forest exploitation without replanting or natural regrowth (B03)	low importance (L)	N/A
droughts and less precipitations (M01.02)	high importance (H)	N/A
human induced changes in hydraulic conditions (J02)	high importance (H)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	low importance (L)	N/A
garbage and solid waste (H05.01)	high importance (H)	N/A
burning down (J01.01)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	low importance (L)	N/A
Fertilisation (A08)	low importance (L)	N/A
Changes in abiotic conditions (M01)	low importance (L)	N/A

2.7.1 Method used – threats expert opinion (1)

2.8 Complementary Information

Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

Italian Red List (2013): LC

Sources: GENNAI M., 2012 - *Ruscus aculeatus* L. Inf. Bot. It., 44 (2): 470-471.
ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013 - Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare.

2.8.3 Trans-boundary assessment

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

2.9.1 Range

assessment Favourable (FV)

qualifiers N/A

2.9.2. Population

assessment Favourable (FV)

qualifiers N/A

2.9.3. Habitat

assessment Favourable (FV)

qualifiers N/A

2.9.4. Future prospects

assessment Favourable (FV)

qualifiers N/A

2.9.5 Overall assessment of Conservation Status

Favourable (FV)

2.9.5 Overall trend in Conservation Status

N/A

3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

3.1.1 Population Size

Unit N/A
min max

3.1.2 Method used

N/A

3.1.3 Trend of population size within

N/A

3.2 Conversation Measures

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

Continental (CON)

2.2 Published sources

The present species assessment (fields 0.1-2.9) has been compiled by Stefania Ercole and Valeria Giacanelli (Institute for Environmental Protection and Research - ISPRA).

CONTI F., ABBATE G., ALESSANDRINI A., BLASI C., (Eds.) 2005 - An annotated Checklist of the Italian Vascular Flora. Palombi Editori, Roma.

CONTI F., MANZI A., PEDROTTI F., 1997 - Liste Rosse Regionali delle Piante d'Italia. WWF Italia. Società Botanica Italiana. Università di Camerino. Camerino. 139 pp.

GENNAI M., 2012 - *Ruscus aculeatus* L. Inf. Bot. It., 44 (2): 470-471.

MARTINOLI G., 1951 - Studio cariologico sul genere *Ruscus* (Asparagaceae). Caryologia, 4: 86-97.

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PIGNATTI S., 1982 - Flora d'Italia, voll. 1-3. Edagricole, Bologna.
 REGIONE LIGURIA, 2008 - Carta della Biodiversità (www.ambienteinliguria.it).
 ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013 - Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare.
 SCOPPOLA A., SPAMPINATO G. (eds.), 2005 - Atlante delle specie a rischio di estinzione. Versione 1.0. CD-Rom enclosed to the volume: SCOPPOLA A., BLASI C. (eds.), Stato delle conoscenze sulla flora vascolare d'Italia. Palombi Editori. Roma.
 SOCIETÀ BOTANICA ITALIANA, 2012 - Valutazione nazionale della categoria di rischio di estinzione per specie vegetali di pregio e di interesse conservazionistico. Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Società Botanica Italiana (dati inediti).

2.3 Range

2.3.1 Surface area - Range (km ²)	54600
2.3.2 Method - Range surface area	Estimate based on partial data with some extrapolation and/or modelling (2)
2.3.3 Short-term trend period	2001-2012
2.3.4 Short-term trend direction	stable (0)
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 approximately equal to (≈) unkown No method Expert judgment
2.3.10 Reason for change	Use of different method

2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit N/A min max
2.4.2 Population size (other than individuals)	Unit number of map 10x10 km grid cells (grids10x10) min 242 max 242
2.4.3 Additional information	Definition of locality Conversion method Problems no data available for the number of individuals
2.4.4 Year or period	2012
2.4.5 Method – population size	Estimate based on partial data with some extrapolation and/or modelling (2)
2.4.6 Short-term trend period	2001-2012
2.4.7 Short term trend direction	stable (0)
2.4.8 Short-term trend magnitude	min max confidence interval
2.4.9 Short-term trend method	Estimate based on partial data with some extrapolation and/or modelling (2)
2.4.10 Long-term trend period	

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2.4.11 Long term trend direction	N/A		
2.4.12 Long-term trend magnitude	min	max	confidence interval
2.4.13 Long-term trend method	N/A		
2.4.14 Favourable reference population	number		
	operator	approximately equal to (≈)	
	unknown	No	
	method	Expert judgment	
2.4.15 Reason for change	Use of different method		

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km ²)	
2.5.2 Year or period	
2.5.3 Method used - habitat	Absent data (0)
2.5.4 a) Quality of habitat	Good
2.5.4 b) Quality of habitat - method	expert based
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	stable (0)
2.5.7 Long-term trend period	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km ²)	
2.5.10 Reason for change	

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
removal of forest undergrowth (B02.03)	medium importance (M)	N/A
forest exploitation without replanting or natural regrowth (B03)	low importance (L)	N/A
Taking / Removal of terrestrial plants, general (F04)	low importance (L)	N/A
abiotic (slow) natural processes (K01)	low importance (L)	N/A
burning down (J01.01)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	low importance (L)	N/A
Fertilisation (A08)	low importance (L)	N/A

2.6.1 Method used – pressures	mainly based on expert judgement and other data (2)
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2.7 Main Threats

Threat	ranking	pollution qualifier(s)
removal of forest undergrowth (B02.03)	medium importance (M)	N/A
forest exploitation without replanting or natural regrowth (B03)	low importance (L)	N/A
Taking / Removal of terrestrial plants, general (F04)	low importance (L)	N/A
Changes in abiotic conditions (M01)	low importance (L)	N/A
burning down (J01.01)	low importance (L)	N/A
forestry clearance (B02.02)	medium importance (M)	N/A
Fertilisation (A08)	low importance (L)	N/A

2.7.1 Method used – threats	expert opinion (1)
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Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

Italian Red List (2013): LC

Sources: GENNAI M., 2012 - *Ruscus aculeatus* L. Inf. Bot. It., 44 (2): 470-471.
ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013 - Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare.

2.8.3 Trans-boundary assessment

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

2.9.1 Range

assessment Favourable (FV)
qualifiers N/A

2.9.2. Population

assessment Favourable (FV)
qualifiers N/A

2.9.3. Habitat

assessment Favourable (FV)
qualifiers N/A

2.9.4. Future prospects

assessment Favourable (FV)
qualifiers N/A

2.9.5 Overall assessment of Conservation Status

Favourable (FV)

2.9.5 Overall trend in Conservation Status

N/A

3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

3.1.1 Population Size

Unit N/A
min max

3.1.2 Method used

N/A

3.1.3 Trend of population size within

N/A

3.2 Conversation Measures

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

Alpine (ALP)

2.2 Published sources

The present species assessment (fields 0.1-2.9) has been compiled by Stefania Ercole and Valeria Giacanelli (Institute for Environmental Protection and Research - ISPRA).

AVOGADRI A., 2002 - L'anello naturalistico del M. Cala. Notiziario Floristico del Gruppo Flora Alpina Bergamasca, 22: 6-8.

BARBAGLI M., MARCONI C., 2001 - Gita sociale ai fontanili e ai boschi della pianura. Notiziario Floristico del Gruppo Flora Alpina Bergamasca, 20: 11-13.

BOVIO M., BROGLIO M., POGGIO L., 2008 - Guida alla flora della Valle d'Aosta. Torino, Blu Ed., pag. 280.

Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

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CONTI F., MANZI A., PEDROTTI F., 1997 - Liste Rosse Regionali delle Piante d'Italia. WWF Italia. Società Botanica Italiana. Università di Camerino. Camerino. 139 pp.

FALGHERI G., 1993a - Valle di Scalve da Nona al Monte Sasna. In: itinerari naturalistici. Notiziario Floristico del Gruppo Flora Alpina Bergamasca, 3: 17-18.

GENNAI M., 2012 - *Ruscus aculeatus* L. Inf. Bot. It., 44 (2): 470-471.

MANGILI L., MANGILI F., 1998 - Sorprese in Pianura. In: nota botanica. Notiziario Floristico del Gruppo Flora Alpina Bergamasca, 14: 15-16.

MARTINOLI G., 1951 - Studio cariologico sul genere *Ruscus* (Asparagaceae). Caryologia, 4: 86-97.

MUSEO DI SCIENZE NATURALI DI BOLZANO, 2012 - Cartografia floristica della Provincia di Bolzano.

PIGNATTI S., 1982 - Flora d'Italia, voll. 1-3. Edagricole, Bologna.

PROSSER F., BERTOLLI A., 2012 - Cartografia floristica della Provincia di Trento - Museo Civico di Rovereto.

SCOPPOLA A., SPAMPINATO G. (eds.), 2005 - Atlante delle specie a rischio di estinzione. Versione 1.0. CD-Rom enclosed to the volume: SCOPPOLA A., BLASI C. (eds.), Stato delle conoscenze sulla flora vascolare d'Italia. Palombi Editori. Roma.

ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013 - Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare.

SOCIETÀ BOTANICA ITALIANA, 2012 - Valutazione nazionale della categoria di rischio di estinzione per specie vegetali di pregio e di interesse conservazionistico. Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Società Botanica Italiana (dati inediti).

WILHALM T., NIKFELD H., GUTERMANN W., 2006 - Katalog der Gefäßpflanzen Südtirols. Veröffentlichungen des Naturmuseums Südtirol, nr. 3, 218 pp.

2.3 Range

2.3.1 Surface area - Range (km ²)	27100
2.3.2 Method - Range surface area	Estimate based on partial data with some extrapolation and/or modelling (2)
2.3.3 Short-term trend period	2001-2012
2.3.4 Short-term trend direction	stable (0)
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 approximately equal to (≈) unkown No method Expert judgment
2.3.10 Reason for change	Use of different method

2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit N/A
	min max

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2.4.2 Population size (other than individuals)	Unit	number of map 10x10 km grid cells (grids10x10)		
	min	119	max	119
2.4.3 Additional information	Definition of locality			
	Conversion method			
	Problems			
	no data available for the number of individuals			
2.4.4 Year or period	2012			
2.4.5 Method – population size	Estimate based on partial data with some extrapolation and/or modelling (2)			
2.4.6 Short-term trend period	2001-2012			
2.4.7 Short term trend direction	stable (0)			
2.4.8 Short-term trend magnitude	min		max	confidence interval
2.4.9 Short-term trend method	Estimate based on partial data with some extrapolation and/or modelling (2)			
2.4.10 Long-term trend period				
2.4.11 Long term trend direction	N/A			
2.4.12 Long-term trend magnitude	min		max	confidence interval
2.4.13 Long-term trend method	N/A			
2.4.14 Favourable reference population	number			
	operator	approximately equal to (≈)		
	unknown	No		
	method	Expert judgment		
2.4.15 Reason for change	Use of different method			

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km ²)	
2.5.2 Year or period	
2.5.3 Method used - habitat	Absent data (0)
2.5.4 a) Quality of habitat	Good
2.5.4 b) Quality of habitat - method	expert based
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	stable (0)
2.5.7 Long-term trend period	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km ²)	
2.5.10 Reason for change	

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
Taking / Removal of terrestrial plants, general (F04)	low importance (L)	N/A

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

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Taking / Removal of terrestrial plants, general (F04)	low importance (L)	N/A
paths, tracks, cycling tracks (D01.01)	low importance (L)	N/A
Trampling, overuse (G05.01)	low importance (L)	N/A

2.7.1 Method used – threats expert opinion (1)

2.8 Complementary Information

Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

Italian Red List (2013): LC

Sources: GENNAI M., 2012 - *Ruscus aculeatus* L. Inf. Bot. It., 44 (2): 470-471.
ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013 - Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare.

2.8.3 Trans-boundary assessment

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

2.9.1 Range

assessment Favourable (FV)

qualifiers N/A

2.9.2. Population

assessment Favourable (FV)

qualifiers N/A

2.9.3. Habitat

assessment Favourable (FV)

qualifiers N/A

2.9.4. Future prospects

assessment Favourable (FV)

qualifiers N/A

2.9.5 Overall assessment of Conservation Status

Favourable (FV)

2.9.5 Overall trend in Conservation Status

N/A

3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

3.1.1 Population Size

Unit N/A

min max

3.1.2 Method used

N/A

3.1.3 Trend of population size within

N/A

3.2 Conversation Measures

Species name: *Ruscus aculeatus* (1849)

Field label	Note	User
1.1.1 Distribution Map	<p>Data sources:</p> <p>SOCIETÀ BOTANICA ITALIANA, 2012. Valutazione nazionale della categoria di rischio di estinzione per specie vegetali di pregio e di interesse conservazionistico. Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Società Botanica Italiana (dati inediti).</p> <p>PROV. AUTONOME DI TRENTO E BOLZANO, REGIONI: VALLE D'AOSTA, PIEMONTE, LOMBARDIA, FRIULI VENEZIA GIULIA, LIGURIA, EMILIA ROMAGNA, TOSCANA, UMBRIA, MOLISE, LAZIO, PUGLIA, BASILICATA, SARDEGNA (Raccolta dati per articolo 17, 2012).</p>	ISPRA_F LORA