

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	4096
0.2.2 Species name	<i>Gladiolus palustris</i>
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). Distribution data for the following Nature 2000 sites have been inserted by the Ministry of Environment (source: Italian Nature 2000 database): IT3320022, IT3320021, IT3320020, IT3320023, IT1160012, IT1180011.

COARO E., 1987 - Flora e vegetazione del Bosco dell'Ulivo (Parco di Migliarino, S. Rossore e Massaciuccoli). Quad. Mus. Storia Nat. Livorno, 8, Suppl. 1: 5-14.

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2.3 Range

2.3.1 Surface area - Range (km ²)	9800
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	Improved knowledge/more accurate dataUse 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 30 max 30
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	unknown (x)
2.4.8 Short-term trend magnitude	min max confidence interval
2.4.9 Short-term trend method	Absent data (0)
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

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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	Moderate
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	unknown (x)
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)
anthropogenic reduction of habitat connectivity (J03.02)	medium importance (M)	N/A
Biocenotic evolution, succession (K02)	low importance (L)	N/A
human induced changes in hydraulic conditions (J02)	low importance (L)	N/A
Drying out (K01.03)	low importance (L)	N/A

2.6.1 Method used – pressures based only on expert judgements (1)

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
anthropogenic reduction of habitat connectivity (J03.02)	medium importance (M)	N/A
Biocenotic evolution, succession (K02)	low importance (L)	N/A
human induced changes in hydraulic conditions (J02)	low importance (L)	N/A
Drying out (K01.03)	low importance (L)	N/A
droughts and less precipitations (M01.02)	low importance (L)	N/A

2.7.1 Method used – threats expert opinion (1)

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information Italian Red List (2013): NT
Source: 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 Inadequate (U1) qualifiers unknown (x)

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2.9.4. Future prospects	assessment Unknown (XX) qualifiers N/A
2.9.5 Overall assessment of Conservation Status	Inadequate (U1)
2.9.5 Overall trend in Conservation Status	unknown (x)

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	Absent data (0)
3.1.3 Trend of population size within	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
No measures needed for the conservation of the habitat/species (1.1)		()		

2. Biogeographical Or Marine Level

2.1 Biogeographical Region
2.2 Published sources

Continental (CON)

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). Information, unpublished data and experts' judgments have been provided by Giuseppe Oriolo. Distribution data for the following Nature 2000 sites have been inserted by the Ministry of Environment (source: Italian Nature 2000 database): IT3320022, IT3320021, IT3320020, IT3320023, IT1160012, IT1180011.

AAVV., 2011 - Monitoraggi nell'ambito del progetto LIFE06NAT/IT/000060 "Conservazione e ripristino di torbiere calcaree in Friuli". Regione Autonoma Friuli Venezia Giulia.

COARO E., 1987 - Flora e vegetazione del Bosco dell'Ulivo (Parco di Migliarino, S. Rossore e Massaciuccoli). Quad. Mus. Storia Nat. Livorno, 8, Suppl. 1: 5-14.

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.

FOGGI B., SELVI F., VICIANI D., BETTINI D., GABELLINI A., 2000 - La vegetazione forestale del Bacino del fiume Cecina (Toscana centro-occidentale). Parlatorea, 4: 39-73.

GARBARI F., 1980 - Indagine floristica e vegetazionale sul padule di Fucecchio. In: VV.AA., Progetto pilota per la salvaguardia e la valorizzazione del padule di Fucecchio: 217-263. Min. Agr. For., Dir. Gen. Econ. Mont. For., Cons. Bon. Pad. Fuc. Firenze.

GARBARI F., BORZATTI VON LOEWENSTERN A., 2005 - Flora pisana: elenco

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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.

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2.3 Range

2.3.1 Surface area - Range (km ²)	17000
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 60 max 60
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	unknown (x)
2.4.8 Short-term trend magnitude	min max confidence interval
2.4.9 Short-term trend method	Estimate based on expert opinion with no or minimal sampling (1)
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	Moderate
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	unknown (x)
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)
Landfill, land reclamation and drying out, general (J02.01)	high importance (H)	N/A
groundwater abstractions for agriculture (J02.07.01)	high importance (H)	N/A
canalisation (J02.03.02)	high importance (H)	N/A
species composition change (succession) (K02.01)	high importance (H)	N/A
abandonment / lack of mowing (A03.03)	high importance (H)	N/A
2.6.1 Method used – pressures	based only on expert judgements (1)	

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Canalisation & water deviation (J02.03)	medium importance (M)	N/A
Other human induced changes in hydraulic conditions (J02.15)	medium importance (M)	N/A
intensive grazing (A04.01)	medium importance (M)	N/A
abandonment of pastoral systems, lack of grazing (A04.03)	medium importance (M)	N/A
agricultural intensification (A02.01)	high importance (H)	N/A
intensive fish farming, intensification (F01.01)	medium importance (M)	N/A
Taking / Removal of terrestrial plants, general (F04)	medium importance (M)	N/A
Discharges (E03)	low importance (L)	N/A
2.7.1 Method used – threats	expert opinion (1)	

2.8 Complementary Information

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2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

Italian Red List (2013): NT

Source: 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 Inadequate (U1)

qualifiers unknown (x)

2.9.4. Future prospects

assessment Unknown (XX)

qualifiers N/A

2.9.5 Overall assessment of Conservation Status

Inadequate (U1)

2.9.5 Overall trend in Conservation Status

unknown (x)

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

Absent data (0)

3.1.3 Trend of population size within

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	high importance (H)	Both	Maintain Long term
Other wetland-related measures (4.0)	Recurrent One-off	high importance (H)	Inside	Maintain Enhance Long term
Legal protection of habitats and species (6.3)	Legal	high importance (H)	Both	Maintain Long term

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). Information, unpublished data and experts' judgments have

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been provided by Giuseppe Oriolo. Distribution data for the following Nature 2000 sites have been inserted by the Ministry of Environment (source: Italian Nature 2000 database): IT3320022, IT3320021, IT3320020, IT3320023, IT1160012, IT1180011.

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POGGIO L., BOVIO M., 2004. Cento fiori in Valle d'Aosta. Aosta, Tipografia Valdostana, pag. 48

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

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2.3 Range

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2.3.1 Surface area - Range (km ²)	16400
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 63 max 63
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	decrease (-)
2.4.8 Short-term trend magnitude	min max confidence interval
2.4.9 Short-term trend method	Estimate based on expert opinion with no or minimal sampling (1)
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	Moderate
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	unknown (x)

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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)
groundwater abstractions for agriculture (J02.07.01)	low importance (L)	N/A
abandonment / lack of mowing (A03.03)	low importance (L)	N/A
abandonment of pastoral systems, lack of grazing (A04.03)	medium importance (M)	N/A
non intensive grazing (A04.02)	medium importance (M)	N/A
Landfill, land reclamation and drying out, general (J02.01)	medium importance (M)	N/A
canalisation (J02.03.02)	low importance (L)	N/A
Biocenotic evolution, succession (K02)	high importance (H)	N/A
Taking / Removal of terrestrial plants, general (F04)	medium importance (M)	N/A

2.6.1 Method used – pressures based only on expert judgements (1)

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Biocenotic evolution, succession (K02)	high importance (H)	N/A
Taking / Removal of terrestrial plants, general (F04)	medium importance (M)	N/A
Landfill, land reclamation and drying out, general (J02.01)	medium importance (M)	N/A
intensive fish farming, intensification (F01.01)	medium importance (M)	N/A
abandonment of pastoral systems, lack of grazing (A04.03)	medium importance (M)	N/A

2.7.1 Method used – threats expert opinion (1)

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

Italian Red List (2013): NT
Source: 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 Inadequate (U1) qualifiers declining (-)
2.9.3. Habitat	assessment Inadequate (U1) qualifiers unknown (x)

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2.9.4. Future prospects	assessment Unknown (XX) qualifiers N/A
2.9.5 Overall assessment of Conservation Status	Inadequate (U1)
2.9.5 Overall trend in Conservation Status	unknown (x)

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	Absent data (0)
3.1.3 Trend of population size within	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
Establish protected areas/sites (6.1)	Legal Administrative	high importance (H)	Inside	Not evaluated
Legal protection of habitats and species (6.3)	Legal Administrative	high importance (H)	Both	Maintain Long term Unknown Not evaluated

Species name: *Gladiolus palustris* (4096)

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. AUTONOMA DI TRENTO, REGIONI: VALLE D'AOSTA, PIEMONTE, LOMBARDIA, FRIULI VENEZIA GIULIA, VENETO, LIGURIA, EMILIA ROMAGNA, TOSCANA (Raccolta dati per articolo 17, 2012).</p> <p>Distribution data for the following Nature 2000 sites have been inserted by the Ministry of Environment (source: Italian Nature 2000 database): IT3320022, IT3320021, IT3320020, IT3320023, IT1160012, IT1180011.</p>	ISPRA_F LORA

Species name: *Gladiolus palustris* (4096) Region code: ALP

Field label	Note	User
2.9.5 Conclusion - overall assessment	La valutazione complessiva "inadeguata" per la Regione Alpina ha tenuto conto delle valutazioni fornite , sia dalla Regione Friuli Venezia Giulia, che dalla Provincia di Trento.	ISPRA_F LORA
2.9.3a Conclusion - habitat	La valutazione "inadeguata" per la Regione Alpina, per l'habitat, ha tenuto conto delle valutazioni fornite , sia dalla Regione Friuli Venezia Giulia, che dalla Provincia di Trento.	ISPRA_F LORA
2.9.2a Conclusion - population	La valutazione "inadeguata" (U1) per la Regione Alpina della popolazione ha tenuto conto delle valutazioni fornite , sia dalla Regione Friuli Venezia Giulia (U1), che dalla Provincia di Trento (U2).	ISPRA_F LORA

Species name: *Gladiolus palustris* (4096) Region code: CON

Field label	Note	User
2.9.5 Conclusion - overall assessment	La valutazione complessiva "inadeguato" è stata data in linea con quanto indicato dalla Regione Friuli Venezia Giulia, che ospita la maggior parte delle stazioni continentali della specie.	ISPRA_F LORA
2.9.3a Conclusion - habitat	La valutazione "inadeguato" dell'habitat è stata data in linea con quanto indicato dalla Regione Friuli Venezia Giulia, che ospita la maggior parte delle stazioni continentali della specie.	ISPRA_F LORA
2.9.2a Conclusion - population	La valutazione "favorevole" della popolazione è stata data in linea con quanto indicato dalla Regione Friuli Venezia Giulia, che ospita la maggior parte delle stazioni continentali della specie.	ISPRA_F LORA