0.1 Member State	IT
0.2.1 Species code	1634
0.2.2 Species name	Limonium insulare
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). Information, unpublished data and experts' judgments have been provided by: Gianni Bacchetta (University of Cagliari) and Giuseppe Fenu (University of Cagliari).

ABELI T., MONTAGNANI C., 2011 – Limonium insulare. In: IUCN 2011, IUCN Red List of Threatened Species. Version 2011.2. <www.iucnredlist.org>. Downloaded on 21 May 2012.

ARRIGONI P.V., DIANA S., 1990 – Le piante endemiche della Sardegna: 192-197. Boll. Soc. Sarda Sci. Nat., 27: 259-282.

ARRIGONI P.V., DIANA S., 1999 – Karyology, chorology and bioecology of the genus Limonium (plumbaginaceae) in Sardinia. Plant Biosyst., 133(1): 63-71. BACCHETTA G., 2001 – Limonium insulare Arrigoni et Diana. In: PIGNATTI S., MENEGONI P., GIACANELLI V. (eds.), Liste rosse e blu della flora italiana. ANPA. Roma.

BACCHETTA G., FARRIS E., PONTECORVO C. 2012 - A new method to set conservation priorities in biodiversity hotspots. Plant Biosystems, 146(3): 638-648.

BACCHETTA G., FENU G., MATTANA E., 2012 - The checklist of the exclusive vascular flora of Sardinia and its priority settings for conservation. Anales del Jardin Botanico de Madrid 69(1): 81-89.

BEGUINOT A., LANDI M., 1931 – L'endemismo nelle minori isole italiane e suo significato biogeografico. Arch. Bot. (Forlì), 7: 56-57.

BILZ M., KELL S.P., MAXTED N., LANSDOWN R.V., 2011 – European Red List of Vascular Plants. Luxembourg: publications office european union.

BIONDI E., DIANA S., FARRIS E., FILIGHEDDU R.S., 2001 – L'ordine Limonietalia Br.-Bl. Et O. Bolòs 1958 in Sardegna. Fitosociologia, 38(2): 37-44.

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., 1992 - Libro Rosso delle Piante d'Italia. WWF Italia. Roma. 637 pp.

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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.

FENU G., MATTANA E., 2011. Conservation studies on threatened endemic plants of the Mediterranean area: a literature overview for Sardinia. Fitosociologia 48(1) suppl. 1: 5-12.

FOIS M., FENU G., COGONI D., MASCIA F., BACCHETTA G., 2012. Limonium insulare (Bég. Et Landi) Arrigoni et Diana. Inf. Bot. Ital. 44(2): 443-445. MAYER A., 1995 – Comparative study of the coastal vegetation of Sardinia (Italy) and Crete (Greece) with respect to the effects of human influence. Libri Bot., 15: 1-264.

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 (km²)

2.3.2 Method - Range surface area

2.3.3 Short-term trend period

2.3.4 Short-term trend direction

2.3.5 Short-term trend magnitude

2.3.6 Long-term trend period

2.3.7 Long-term trend direction

2.3.8 Long-term trend magnitude

2.3.9 Favourable reference range

800

Estimate based on partial data with some extrapolation and/or modelling (2)

2001-2012

stable (0)

min max

N/A

min

max

area (km²)

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)

2.4.2 Population size (other than individuals)

2.4.3 Additional information

Unit N/A

min max

Unit number of localities (localities)

min 10 max 10

Definition of locality localities= sites where the presence of the species is

confirmed

Conversion method

Problems no data available for the number of individuals

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 2.4.4 Year or period 2.4.5 Method – population size 2.4.6 Short-term trend period 2.4.7 Short term trend direction 	2012 Estimate based on partial data with some extrapolation and/or modelling (2) 2001-2012 decrease (-)
2.4.8 Short-term trend magnitude2.4.9 Short-term trend method2.4.10 Long-term trend period	min max confidence interval Estimate based on partial data with some extrapolation and/or modelling (2)
2.4.11 Long term trend direction2.4.12 Long-term trend magnitude2.4.13 Long-term trend method	N/A min max confidence interval 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 (km²) 2.5.2 Year or period	
2.5.3 Method used - habitat2.5.4 a) Quality of habitat	Absent data (0) Moderate
2.5.4 b) Quality of habitat - method	Expert based
2.5.5 Short term trend period2.5.6 Short term trend direction	2001-2012 decrease (-)

2.6 Main Pressures		
Pressure	ranking	pollution qualifier(s)
Outdoor sports and leisure activities, recreational activities (G01)	high importance (H)	N/A
Urbanised areas, human habitation (E01)	high importance (H)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A

Trampling, overuse (G05.01) medium importance (M) N/A
garbage and solid waste (H05.01) medium importance (M) N/A
invasive non-native species (I01) medium importance (M) N/A
Landfill, land reclamation and drying out, general (J02.01) medium importance (M) N/A

diffuse pollution to surface waters due to household sewage medium importance (M) N/A and waste waters (H01.08)

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

N/A

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2.5.7 Long-term trend period2.5.8 Long term trend direction

2.5.10 Reason for change

2.5.9 Area of suitable habitat (km²)

Threat	ranking	pollution qualifier(s)
Outdoor sports and leisure activities, recreational activities (G01)	high importance (H)	N/A
Urbanised areas, human habitation (E01)	high importance (H)	N/A

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invasive non-native species (I01)	medium importance (M)	N/A
Landfill, land reclamation and drying out, general (J02.01)	medium importance (M)	N/A
diffuse pollution to surface waters due to household sewage and waste waters (H01.08)	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

1) Italian Red List (2013): EN. Assessment criteria: B1ab(i,ii,iii,v) + 2ab(i,ii, iii,v) Published in:

FOIS M., FENU G., COGONI D., MASCIA F., BACCHETTA G., 2012. Limonium insulare (Bég. Et Landi) Arrigoni et Diana. Inf. Bot. Ital. 44(2): 443-445.
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) Global red list: EN B2ab(iii)

Published in: ABELI T., MONTAGNANI C., 2011 – Limonium insulare. In: IUCN 2011, IUCN Red List of Threatened Species. Version 2011.2.

<www.iucnredlist.org>

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 declining (-)
2.9.4. Future prospects assessment Inadequate (U1)

qualifiers declining (-)

2.9.5 Overall assessment of Inadequate (U1)

Conservation Status

2.9.5 Overall trend in Conservation Status

declining (-)

decilining (

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

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3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
No measure known/		()		
impossible to carry out				
specific measures (1.3)				

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	nsulare (1634)	
Field label	Note	User
1.1.1 Distribution Map 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). FOIS M., FENU G., COGONI D., MASCIA F., BACCHETTA G., 2012. Limonium insulare (Bég. Et et Landi) Arrigoni et Diana. Inform. Bot. Ital. 44(2): 443-445. Regione Autonoma della Sardegna - Assessorato Difesa Ambiente, 2012 - Servizio di monitoraggio dello stato di conservazione degli habitat e delle specie di importanza comunitaria presenti nei siti della Rete Natura 2000 in Sardegna – Linea 4. Redazione del Rapporto sullo stato di conservazione degli habitat e delle specie.		ISPRA_F LORA
Species name: Limonium i	nsulare (1634) Region code: MED	
Field label	Note	User
2.5.6 Short term trend direction	Le osservazioni e la natura delle minacce evidenziano un progressivo degrado, soprattutto nelle aree intensamente sfruttate a fini turistici. Le aree lagunari in cui la specie è presente, sono interessate da interventi di bonifica e scarico di acque reflue non autorizzate che stanno riducendo la qualità degli habitat in cui si rinviene la specie. Fonte: FOIS M., FENU G., COGONI D., MASCIA F., BACCHETTA G., 2012. Limonium	ISPRA_F LORA
	insulare (Bég. Et Landi) Arrigoni et Diana. Inf. Bot. Ital. 44(2): 443-445.	

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