Limonium perplexum: an example of a taxon with an achieved Recovery Plan

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Limonium perplexum (Sáez, L.&Rosselló) is an herbaceous (perennial to annual) species which only lives on two small sites of a low coastal cliff in Serra d'Irta (Peníscola, Valencian Community, Spain). It is part of the permanent chasmophyte communities exposed to salt-laden sea spray (Crithmo-Staticetea). Population size has been observed to fluctuate between 30 and 690 individuals. The sites are affected by collapse risk caused by marine storms. Sea level rise due to climate change is also a



Limonium perplexum



Germination test



threat.

Since 2015 has a Recovery Plan published by Order 1/2015 (DOCV no. 7451, 27/1/2015). Works to achieve this Plan carried out by the Wildlife Service and Natura 2000 Network (Generalitat Valenciana).





Nursery propagation



OBJECTIVE

REQUERIMENTS

HOW TO GET IT





downgrade the threat category - at least a total of 250 individuals - a minimum of 6 populations - at least 6 UTM grid 1x1km - at least for 5 consecutive years

creating new populations by propaging, cultivating and planting in the natural environment

Translocation



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Monitoring



Figure 2. Evolution of the number of populations. The black line indicates the minimum number.

RESULTS



Figure 3. Evolution of the 1x1km grid number. The black line indicates the minimum number.



Figure 1 shows that since 2016 the total population size exceeds 250 individuals for at least 5 consecutive years and until 2022.

Figure 2 shows that since 2017 the number of populations is at least 6 for at least 5 consecutive years and until 2022.

Figure 3 shows that since 2018 the number of 1x1km grids is at least 6 for at least 5 consecutive years and until 2022.

Effects of maritime storms

CONCLUSIONS

- *Limonium perplexum* meets all the requirements of the recovery plan since 2018 to 2022.
- Thus, the species reaches the conditions of lowering the threat category both under the Valencian regional legislation and in the legislation of the Spanish state.
- However, in the context of global climate change, the progressive rise in sea level and the chronification of extreme meteorological events, such as maritime storms or prolonged droughts, are expected. This could greatly affect our species. The habitat and the species could migrate inland but this would be prevented by crops, urbanizations, infrastructures, etc. that human society has been establishing along the Mediterranean coast.

