



Federal Office for
Agriculture and Food

INFORMATION- UND
KOORDINATIONSZENTRUM
**Biologische
Vielfalt**

Results of project partners activities The German case

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CWR list of Germany

German Flora: 3,062 different plant species (ferns and higher plants)

German CWR checklist: 2,472 species (80 %)

List of priority CWR: 126 species (44 classified as special priority, 82 species as simple priority species)

Criteria for prioritization:

- Survey of breeders > 12 genera with 348 taxa
- Prioritizations in project
- Harlan and de Wet CWR Inventory
 - 63 taxa with relevance for Germany
- Species with special responsibility for Germany



Overview on the German CWR priority list

GENUS	Number of CWR species		
Allium	10	Apium	1
Festuca	8	Arnica	1
Lactuca	8	Arum	1
Vicia	8	Asparagus	1
Brassica	5	Atriplex	1
Carex	5	Beta	1
Ribes	5	Cochlearia	1
Rubus	5	Crataegus	1
Trifolium	5	Dactylis	1
Hypericum	4	Hippophae	1
Mentha	4	Humulus	1
Prunus	4	Isatis	1
Valerianella	4	Juncus	1
Fragaria	3	Malus	1
Helosciadium	3	Medicago	1
Hordeum	3	Oenanthe	1
Thymus	3	Origanum	1
Achillea	2	Phleum	1
Avena	2	Pyrus	1
Daucus	2	Salvia	1
Deschampsia	2	Sinapis	1
Lolium	2	Urtica	1
Poa	2	Valeriana	1
Rosa	2	Vitis	1

- 126 species from 48 genera
- 8 established neophytes (not established Neophytes are excluded)

Not at risk	77
Data deficient	19
Highly endangered	9
Endangered	7
Not evaluated	7
Extremely rare	3
Extinct or missing	2
Threatened by extinction	2

Ludwig & Schnittler (1996): Rote Liste der Pflanzen in Deutschland

CWR projects in Germany

Title of the project	Number of genetic reserves (planned/established)	Number of priority CWR	Data availability	Data for EURISCO
"Survival of wild grapevine <i>Vitis sylvestris</i> C.C. Gmel. in the Rhine meadows through targeted <i>in situ</i> management" (2008 – 2013)	1/1	1	yes	Available, but not yet updated
"Identification and conservation of historically old grasslands " (2014 – 2019)	29/0	18	(yes)	Not available
"genetic reserves for wild celery species (<i>Apium</i> and <i>Helosciadium</i>)" (03/2015 – 11/2019)	55/24	4	yes	Yes, updated
"Revitalization and ecological upgrading of soil acidic nutrient-poor grasslands through the enrichment and sustainable use of the medicinal plant <i>Arnica montana</i> " (2021 – 2025)	20/8	1	not yet	Not yet
„In situ conservation of CWR with umbrella species (2020 – 2025)	67/0	87	not yet	Not yet

➤ For 70 % of the German priority CWR projects are on the way.

Selection procedure of genetic reserves in Germany

Nationwide/regional inventory of the occurrence of a species using databases



Presence control, assessment and selection of occurrences for genetic analysis



Selection of occurrences that, taken together, represent the diversity of a species as best as possible



Conclusion of cooperation agreements to establish genetic conservation areas

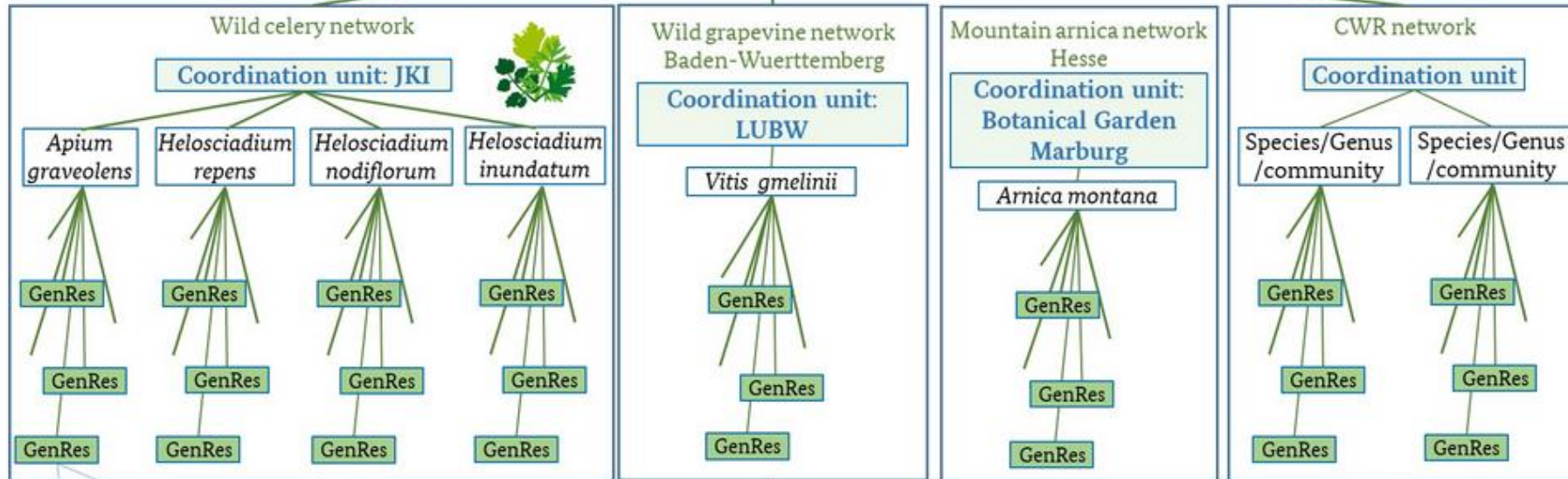


In situ conservation
(in the genetic
conservation area)

Ex situ conservation
(in a gene bank)

German Network of Genetic Reserves for *in situ* conservation of crop wild relatives

National coordination unit at the Information and Coordination Center
for Biological Diversity of the Federal Office for Agriculture and Food



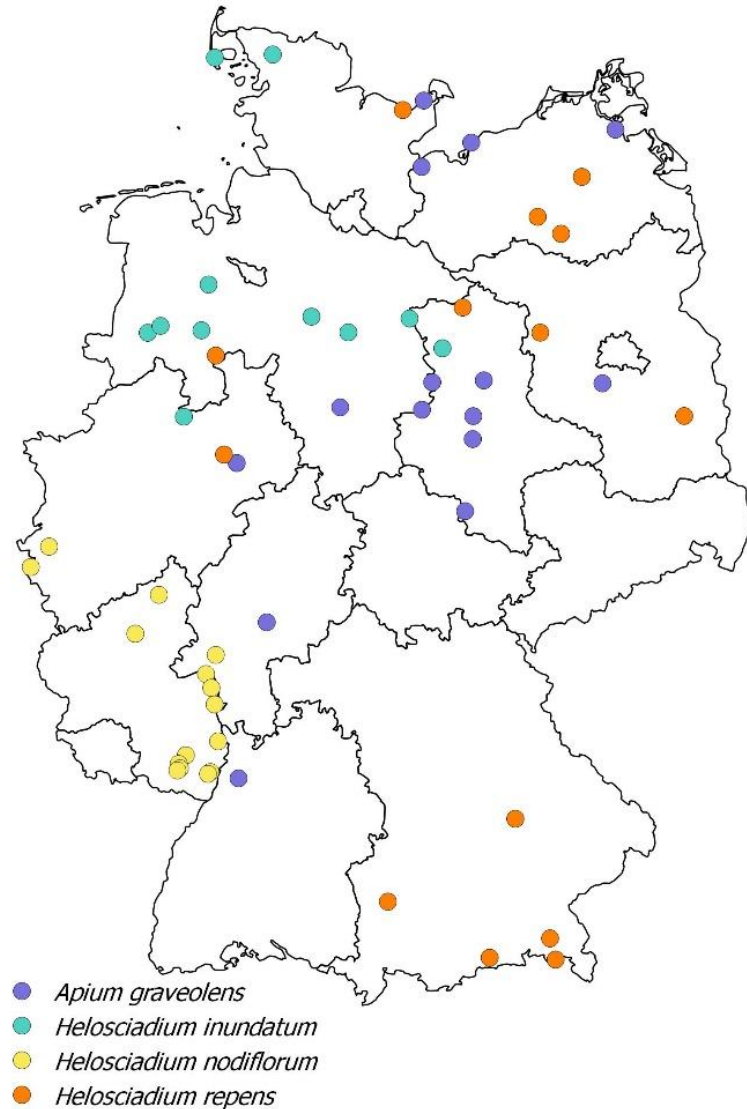
Genebanks:

- Federal central genebank, IPK
- CWR genebank, University Osnabrück
- German grapevine genebank, JKI
- German fruit genebank, JKI
- Other

GenRes: Genetic Reserve
IPK: Leibniz Institute of Plant Genetics and Crop Plant Research
JKI: Julius Kühn-Institut - Federal Research Centre for Cultivated Plants
LUBW: Landesanstalt für Umwelt Baden-Württemberg
CWR: crop wild relative

German in situ data for EURISCO

- From the wild celery network of genetic reserves
- 66 populations in 24 genetic reserves
- 9 genetic reserves outside of protected areas



- In situ data of 3 more projects will follow.

Vielfalt ist verführerisch!



Thank you for attention!