

Supplementary Material

Crop landraces inventory for Portugal

Genetic Resources and Crop Evolution

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Supplementary Figure S1. Questionnaire applied to farmers during field work.

Questionnaire to farmers

1. Farmers' information

Date: _____ Altitude: _____
 Latitude: _____ Longitude: _____
 Solar exposition: N / S / E / W / NE / SE / NW / SW

ID: _____ Age: _____ Contact later: y/ n
 Name: _____

Address: _____
 District: _____ Municipality: _____
 Parish: _____ Locality: _____
 Teleph.: _____ Mobile: _____
 Fax: _____ Email: _____
 Member of association? _____
 Are you interested in maintaining LR long term/ years that
 been maintaining LR? _____

2. Social-economics information

Do yo work in other activity besides agriculture?

Farms' area: <0,5ha 0,5–2ha 2,5–5ha >5ha
 Nr. people working on the farm: _____ Relation: _____
 Are family members willing to maintain LR? _____

3. Crop data

Genus	Species	Local name

Collecting point: field / warehouse / other

Purpose: self-consumption / locally sold / sold outside
 community / partially sold/ other _____

Used part of plant: stem / leaves / seed / fruit

Plant uses: human consumption/ animal feeding/ other

No. of people in the locality that still maintain
 LR? _____

Picture(s): y/ n _____

Value of LR in the farm: main crop / harvest before main
 crop/ harvested after main crop / backyard small
 productions/ other _____

Sowing period	Harvest period

4. Cultural practices

Irrigation / rotation / organic fertilizers / inorganic fertilizers /
 animal traction / mechanization

5. Qualities of LR

market request / tradition / flavor/ diseases and plagues
 resistance / high yield / good storage / other

6. Local physiography

Plain / valley / mountain / hill / other _____

7. Local topography

Plan / slop / mountainous / other

8. Soil texture: sandy/ clay/ balanced

9. Seed descriptors

Seed coat patterns:

1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 99 (see descript. for *P. vulgaris* 4.3.1)

Seed coat darker colour:

1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 / 99
 (see descript. for *P. vulgaris* 4.3.2)

Seed coat lighter colour:

1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 / 99
 (see descript. for *P. vulgaris* 4.3.3)

Brilliance of seed: Matt/ medium/ shiny

Seed shape: 1 / 2 / 3 / 4 / 5 (see descript. for *P. vulgaris* 4.3.5)

Observation: _____

Supplementary Table S1. Main crops cultivated in the Portuguese territory (adapted from INE 2017).

Mainland		Azores Autonomous Region		Madeira Autonomous Region	
Annual Crops	Perennial Crops	Annual Crops	Perennial Crops	Annual Crops	Perennial Crops
Grain cereals	Fresh fruits	Beans	Apple	Beans	Apple
Barley	Apple	Beet	Banana	Broad bean (green)	Avocado
Common wheat	Apricot	Broad bean	Chestnuts	Broccoli	Bananas
Durum wheat	Cherry	Fodder maize	Custard apple	Cabbage (<i>Couve-repolho</i>)	Cherry
Maize	Fig	Maize (grain)	Orange	Carrot	Chestnuts
Oat	Peach	Potatoes	Passion fruit	Cauliflower	Cider apple
Rice	Pear	Sweet potatoes	Pineapple	Green beans	Custard apple
Rye	Plum	Tobacco	Tea	Lettuce	Kiwi
Triticale	Berries	Taro		Maize (for corncob)	Lemon
Grain legumes	Blackberries			Onion	Mango
Beans	Blueberries			Potatoes	Papaya
Chickpeas	Redcurrant			Pumpkin	Passion fruit
Potatoes	Raspberries			Strawberry	Pear
	Sub-tropical				
Oleaginous crops	fruits			Sugar cane	Plum
Sunflower	Kiwi			Sweet potatoes	Tangerine
Horticultural crops	Citrus fruits			Tomato	Vineyards
Broad bean	Lemon			Turnip	
Broccoli	Orange			Taro	
Cabbage (<i>Couve-repolho</i>)	Tangerine				
Cabbage (<i>Conve-tronchuda</i>)	Nuts/dried fruits				
Carrot	Almond				
Cauliflower	Chestnut				
Courgette	Hazelnut				
Garlic	Walnut				
Green bean	Olive groves				
Leek	Olives (olive oil)				
Lettuce	Table olives				
Melon	Vineyards				
Onion	Table grapes				
Pea	Wine grapes				
Pepper					
Pumpkin					
Savoy cabbage					
Spinach					
Strawberry					
Tomato (fresh)					
Tomato (industry)					
Turnip greens (turnip+greens)					
Watermelon					

Supplementary Table S2. Variables selected for developing the Ecogeographic Land Characterization map.

The variables that are considered relevant for growing common bean landraces were selected by experts:

Component	Variables	Description	Unit	Source
Bioclimatic	Mean temp 3	Average temperature from March to August (usual cropping period of common bean in Portugal)	°C	Worldclim (http://worldclim.org)
	Mean temp 4			
	Mean temp 5			
	Mean temp 6			
	Mean temp 7			
Bioclimatic	Mean temp 8	Minimum temperature of the coldest month of the cropping period (March)	°C	Worldclim (http://worldclim.org)
	Min temp 3			
Bioclimatic	Max temp 8	Maximum temperature of the warmest month of the cropping period (August)	°C	Worldclim (http://worldclim.org)
	Max temp 3			
Bioclimatic	Prec 3	Average rainfall of the cropping period months (March to August)	mm	Worldclim (http://worldclim.org)
	Prec 4			
	Prec 5			
	Prec 6			
	Prec 7			
Edaphic	Prec 8			
	Topsoil gravel	Content of gravel in topsoil	%vol.	HWS Database (http://www.iiasa.ac.at/Research/LUC/External-World-soil-database/)
	Topsoil sand	Content of sand in topsoil	% weight	HWS Database (http://www.iiasa.ac.at/Research/LUC/External-World-soil-database/)
	Topsoil slit	Content of silt in topsoil	% weight	HWS Database (http://www.iiasa.ac.at/Research/LUC/External-World-soil-database/)
	Topsoil clay	Content of clay in topsoil	% weight	HWS Database (http://www.iiasa.ac.at/Research/LUC/External-World-soil-database/)
Edaphic	Topsoil bulk	Apparent bulk density reference in surface soil	kg/dm3	HWS Database (http://www.iiasa.ac.at/Research/LUC/External-World-soil-database/)
	Topsoil density			
	Topsoil pH	Surface soil pH (H2O)	-log(H ⁺)	HWS Database (http://www.iiasa.ac.at/Research/LUC/External-World-soil-database/)
	Topsoil org	Organic carbon content in surface soil	% weight	HWS Database (http://www.iiasa.ac.at/Research/LUC/External-World-soil-database/)
	Topsoil CEC	Cation exchange capacity in surface soil	cmol/kg	HWS Database (http://www.iiasa.ac.at/Research/LUC/External-World-soil-database/)
Edaphic	Topsoil salinity	Salinity of surface soil	dS/m	HWS Database (http://www.iiasa.ac.at/Research/LUC/External-World-soil-database/)
	Altitude	Altitude	m	Worldclim (http://worldclim.org)
	Latitude	Latitude	decimal degrees	-
Geophysic	Longitude	Longitude	decimal degrees	-

The variables selected by experts were then analysed using the Random Forest algorithm as implemented in SelecVar of the CAPFITOGEN tools (Parra-Quijano et al. 2016). The variables that had met the standard threshold of 0.8 were then selected for developing the ELC map, as follow:

Component	Variables	Description	Unit	Source
Bioclimatic	Mean temp 3	Average temperature of March	°C	Worldclim (http://worldclim.org)
Bioclimatic	Max temp 8	Maximum temperature of the warmest month of the cropping period (August)	°C	Worldclim (http://worldclim.org)
Bioclimatic	Prec 8	Average rainfall for August	mm	Worldclim (http://worldclim.org)
Edaphic	Topsoil fraction	slit Content of silt in topsoil	% weight	HWS Database (http://www.iiasa.ac.at/Research/LUC/External-World-soil-database/)
Edaphic	Topsoil fraction	clay Content of clay in topsoil	% weight	HWS Database (http://www.iiasa.ac.at/Research/LUC/External-World-soil-database/)
Edaphic	Topsoil carbon	org Organic carbon content in surface soil	% weight	HWS Database (http://www.iiasa.ac.at/Research/LUC/External-World-soil-database/)
Edaphic	Topsoil soil	CEC Cation exchange capacity in surface soil	cmol/kg	HWS Database (http://www.iiasa.ac.at/Research/LUC/External-World-soil-database/)
Geophysic	Altitude	Altitude	m	Worldclim (http://worldclim.org)
Geophysic	Latitude	Latitude	decimal degrees	-
Geophysic	Longitude	Longitude	decimal degrees	-

Supplementary Table S3. Number of landraces per crop taxon (at both species and sub-specific level) or per genus (when the crop was not identified at the species or sub-specific level), for each district in mainland Portugal and each island in the Azores and Madeira archipelagos.

District	Crop (number of landraces)	Genera (number of landraces)
Aveiro (529)	<i>Vitis vinifera</i> (94), <i>Phaseolus vulgaris</i> (88), <i>Malus domestica</i> (65), <i>Zea mays</i> subsp. <i>mays</i> (46), <i>Pyrus communis</i> (34), <i>Brassica rapa</i> (16), <i>Allium cepa</i> (11), <i>Ficus carica</i> (11), <i>Prunus avium</i> (11), <i>Brassica oleracea</i> var. <i>acephala</i> (9), <i>Cucurbita maxima</i> (8), <i>Cucurbita moschata</i> (8), <i>Cucurbita pepo</i> (8), <i>Lactuca sativa</i> (8), <i>Prunus domestica</i> (8), <i>Brassica oleracea</i> var. <i>costata</i> (7), <i>Allium sativum</i> (5), <i>Pisum sativum</i> (5), <i>Prunus persica</i> (5), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (10), <i>Avena sativa</i> (4), <i>Capsicum annuum</i> (4), <i>Lagenaria siceraria</i> (4), <i>Lolium multiflorum</i> (4), <i>Secale cereale</i> (4), <i>Cucumis sativus</i> (3), <i>Phaseolus coccineus</i> (3), <i>Brassica napus</i> (2), <i>Brassica rapa</i> subsp. <i>rapa</i> (2), <i>Citrus sinensis</i> (2), <i>Corylus avellana</i> (2), <i>Cucurbita ficifolia</i> (2), <i>Cydonia oblonga</i> (2), <i>Linum usitatissimum</i> (2), <i>Lupinus albus</i> (2), <i>Olea europaea</i> (2), <i>Triticum aestivum</i> subsp. <i>aestivum</i> (2), <i>Vicia faba</i> (2), <i>Vigna unguiculata</i> subsp. <i>sesquipedalis</i> (2), <i>Allium ampeloprasum</i> (1), <i>Arachis hypogaea</i> (1), <i>Arbutus unedo</i> (1), <i>Avena strigosa</i> (1), <i>Capsicum frutescens</i> (1), <i>Castanea sativa</i> (1), <i>Citrullus lanatus</i> (1), <i>Citrus limon</i> (1), <i>Citrus reticulata</i> (1), <i>Cucumis melo</i> (1), <i>Diospyros kaki</i> (1), <i>Eriobotrya japonica</i> (1), <i>Glycine max</i> (1), <i>Hordeum vulgare</i> subsp. <i>vulgare</i> (1), <i>Lupinus luteus</i> (1), <i>Melissa officinalis</i> (1), <i>Oryza sativa</i> (1), <i>Petroselinum crispum</i> (1), <i>Punica granatum</i> (1), <i>Raphanus sativus</i> (1), <i>Setaria italica</i> (1), <i>Vigna unguiculata</i> (1)	<i>Cucurbita</i> sp. (5), <i>Ocimum</i> sp. (2), <i>Raphanus</i> sp. (1)
Corvo Island (Azores) (10)	<i>Citrus sinensis</i> (3), <i>Allium cepa</i> (1), <i>Colocasia esculenta</i> (1), <i>Ipomoea batatas</i> (1), <i>Malus domestica</i> (1), <i>Phaseolus vulgaris</i> (1), <i>Pyrus communis</i> (1), <i>Zea mays</i> subsp. <i>mays</i> (1)	<i>Brassica</i> sp. (2), <i>Cucurbita</i> sp. (2)
Faial Island (Azores) (67)	<i>Phaseolus vulgaris</i> (10), <i>Ipomoea batatas</i> (8), <i>Malus domestica</i> (5), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (5), <i>Vicia faba</i> (5), <i>Zea mays</i> subsp. <i>mays</i> (5), <i>Allium sativum</i> (4), <i>Allium cepa</i> (3), <i>Colocasia esculenta</i> (3), <i>Pyrus communis</i> (3), <i>Allium schoenoprasum</i> (2), <i>Cucumis sativus</i> (2), <i>Capsicum annuum</i> (1), <i>Citrullus lanatus</i> (1), <i>Citrus limon</i> (1), <i>Citrus sinensis</i> (1), <i>Cucumis melo</i> (1), <i>Ficus carica</i> (1), <i>Hordeum vulgare</i> subsp. <i>vulgare</i> (1), <i>Lactuca sativa</i> (1), <i>Lepidium sativum</i> (1), <i>Physalis peruviana</i> (1), <i>Pisum sativum</i> (1), <i>Secale cereale</i> (1)	<i>Cucurbita</i> sp. (7), <i>Brassica</i> sp. (2), <i>Capsicum</i> sp. (2), <i>Avena</i> sp. (1), <i>Musa</i> sp. (1)
Flores Island (Azores) (64)	<i>Phaseolus vulgaris</i> (15), <i>Zea mays</i> subsp. <i>mays</i> (12), <i>Citrus sinensis</i> (7), <i>Ipomoea batatas</i> (5), <i>Brassica rapa</i> (2), <i>Colocasia esculenta</i> (2), <i>Pisum sativum</i> (2), <i>Pyrus communis</i> (2), <i>Solanum tuberosum</i> (2), <i>Vicia faba</i> (2), <i>Allium cepa</i> (1), <i>Citrus limon</i> (1), <i>Cucumis sativus</i> (1), <i>Eriobotrya japonica</i> (1), <i>Hordeum vulgare</i> subsp. <i>vulgare</i> (1), <i>Lupinus albus</i> (1), <i>Lupinus luteus</i> (1), <i>Malus domestica</i> (1), <i>Ornithopus sativus</i> (1), <i>Prunus domestica</i> (1), <i>Prunus persica</i> (1), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (1), <i>Spinacia oleracea</i> (1)	<i>Brassica</i> sp. (8), <i>Cucurbita</i> sp. (5), <i>Avena</i> sp. (1), <i>Musa</i> sp. (1)
Graciosa Island (Azores) (81)	<i>Phaseolus vulgaris</i> (22), <i>Citrus sinensis</i> (7), <i>Ficus carica</i> (5), <i>Allium cepa</i> (3), <i>Allium sativum</i> (3), <i>Pisum sativum</i> (3), <i>Psidium cattleianum</i> (3), <i>Pyrus communis</i> (3), <i>Vicia faba</i> (3), <i>Zea mays</i> subsp. <i>mays</i> (3), <i>Capsicum annuum</i> (2), <i>Ipomoea batatas</i> (2), <i>Malus domestica</i> (2), <i>Prunus domestica</i> (2), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (2), <i>Solanum tuberosum</i> (2), <i>Allium ampeloprasum</i> (1), <i>Brassica rapa</i> (1), <i>Cicer arietinum</i> (1), <i>Citrus limon</i> (1), <i>Colocasia esculenta</i> (1), <i>Cucumis sativus</i> (1), <i>Eriobotrya japonica</i> (1), <i>Lactuca sativa</i> (1), <i>Lathyrus sativus</i> (1), <i>Lathyrus tingitanus</i> (1), <i>Lupinus albus</i> (1), <i>Passiflora edulis</i> (1), <i>Solanum betaceum</i> (1), <i>Sorghum bicolor</i> (1)	<i>Brassica</i> sp. (9), <i>Cucurbita</i> sp. (3), <i>Musa</i> sp. (2)

District	Crop (number of landraces)	Genera (number of landraces)
Pico Island (Azores) (72)	<i>Phaseolus vulgaris</i> (19), <i>Citrus sinensis</i> (6), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (6), <i>Allium cepa</i> (5), <i>Citrus limon</i> (4), <i>Ficus carica</i> (4), <i>Vicia faba</i> (4), <i>Zea mays</i> subsp. <i>mays</i> (4), <i>Allium sativum</i> (3), <i>Colocasia esculenta</i> (2), <i>Cucumis sativus</i> (2), <i>Ipomoea batatas</i> (2), <i>Arachis hypogaea</i> (1), <i>Capsicum annuum</i> (1), <i>Citrus reticulata</i> (1), <i>Daucus carota</i> (1), <i>Lactuca sativa</i> (1), <i>Lupinus albus</i> (1), <i>Malus domestica</i> (1), <i>Pisum sativum</i> (1), <i>Prunus armeniaca</i> (1), <i>Prunus domestica</i> (1), <i>Pyrus communis</i> (1)	<i>Cucurbita</i> sp. (7), <i>Brassica</i> sp. (7)
S. Jorge Island (Azores) (58)	<i>Phaseolus vulgaris</i> (14), <i>Ipomoea batatas</i> (6), <i>Zea mays</i> subsp. <i>mays</i> (5), <i>Allium cepa</i> (4), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (4), <i>Allium sativum</i> (3), <i>Citrus sinensis</i> (3), <i>Ficus carica</i> (3), <i>Capsicum annuum</i> (2), <i>Cucumis sativus</i> (2), <i>Pisum sativum</i> (2), <i>Vicia faba</i> (2), <i>Brassica rapa</i> (1), <i>Colocasia esculenta</i> (1), <i>Eriobotrya japonica</i> (1), <i>Lepidium sativum</i> (1), <i>Malus domestica</i> (1), <i>Prunus domestica</i> (1), <i>Psidium cattleianum</i> (1), <i>Solanum tuberosum</i> (1)	<i>Brassica</i> sp. (4), <i>Cucurbita</i> sp. (4), <i>Coffea</i> sp. (1), <i>Musa</i> sp. (1)
S. Miguel Island (Azores) (75)	<i>Phaseolus vulgaris</i> (25), <i>Allium sativum</i> (5), <i>Zea mays</i> subsp. <i>mays</i> (4), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (4), <i>Vicia faba</i> (4), <i>Ficus carica</i> (4), <i>Allium cepa</i> (4), <i>Colocasia esculenta</i> (3), <i>Malus domestica</i> (3), <i>Ipomoea batatas</i> (3), <i>Capsicum annuum</i> (2), <i>Cucumis sativus</i> (2), <i>Lactuca sativa</i> (2), <i>Spinacia oleracea</i> (1), <i>Pyrus communis</i> (1), <i>Lepidium sativum</i> (1), <i>Sorghum bicolor</i> (1), <i>Citrus sinensis</i> (1), <i>Camellia sinensis</i> (1), <i>Eriobotrya japonica</i> (1), <i>Ananas comosus</i> var. <i>cayene</i> (1), <i>Citrullus lanatus</i> (1), <i>Physalis peruviana</i> (1)	<i>Cucurbita</i> sp. (9), <i>Brassica</i> sp. (6), <i>Capsicum</i> sp. (3), <i>Musa</i> sp. (2)
Sta. Maria Island (Azores) (83)	<i>Phaseolus vulgaris</i> (24), <i>Ipomoea batatas</i> (7), <i>Pisum sativum</i> (6), <i>Allium cepa</i> (5), <i>Citrus sinensis</i> (5), <i>Vicia faba</i> (5), <i>Zea mays</i> subsp. <i>mays</i> (4), <i>Brassica rapa</i> (3), <i>Colocasia esculenta</i> (3), <i>Lathyrus sativus</i> (3), <i>Prunus domestica</i> (3), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (3), <i>Allium sativum</i> (2), <i>Lepidium sativum</i> (2), <i>Malus domestica</i> (2), <i>Capsicum annuum</i> (1), <i>Citrus reticulata</i> (1), <i>Cucumis sativus</i> (1), <i>Psidium cattleianum</i> (1), <i>Solanum betaceum</i> (1), <i>Vitis vinifera</i> (1)	<i>Brassica</i> sp. (4), <i>Cucurbita</i> sp. (4), <i>Capsicum</i> sp. (1), <i>Musa</i> sp. (1)
Terceira Island (Azores) (87)	<i>Phaseolus vulgaris</i> (35), <i>Colocasia esculenta</i> (7), <i>Zea mays</i> subsp. <i>mays</i> (6), <i>Ipomoea batatas</i> (5), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (5), <i>Ficus carica</i> (4), <i>Allium sativum</i> (3), <i>Vicia faba</i> (3), <i>Allium cepa</i> (2), <i>Brassica rapa</i> (2), <i>Arachis hypogaea</i> (1), <i>Beta vulgaris</i> subsp. <i>vulgaris</i> (2), <i>Castanea sativa</i> (1), <i>Cicer arietinum</i> (1), <i>Citrullus lanatus</i> (1), <i>Citrus sinensis</i> (1), <i>Cucumis melo</i> (1), <i>Cucumis sativus</i> (1), <i>Lolium multiflorum</i> (1), <i>Malus domestica</i> (1), <i>Nicotiana tabacum</i> (1), <i>Pisum sativum</i> (1), <i>Sorghum bicolor</i> (1), <i>Spinacia oleracea</i> (1)	<i>Brassica</i> sp. (7), <i>Cucurbita</i> sp. (6), <i>Musa</i> sp. (1)
Beja (168)	<i>Vitis vinifera</i> (35), <i>Zea mays</i> subsp. <i>mays</i> (15), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (14), <i>Phaseolus vulgaris</i> (10), <i>Citrullus lanatus</i> (9), <i>Capsicum annuum</i> (8), <i>Cucumis melo</i> (8), <i>Allium sativum</i> (7), <i>Olea europaea</i> (7), <i>Lactuca sativa</i> (6), <i>Triticum aestivum</i> (5), <i>Cicer arietinum</i> (4), <i>Cucumis sativus</i> (4), <i>Lathyrus sativus</i> (4), <i>Coriandrum sativum</i> (3), <i>Hordeum vulgare</i> subsp. <i>vulgare</i> (3), <i>Vigna unguiculata</i> (3), <i>Allium cepa</i> (2), <i>Avena sativa</i> (2), <i>Brassica oleracea</i> var. <i>acephala</i> (2), <i>Cucurbita pepo</i> (2), <i>Petroselinum crispum</i> (2), <i>Vicia faba</i> (2), <i>Allium ascalonicum</i> (1), <i>Cucurbita maxima</i> (1), <i>Daucus carota</i> (1), <i>Lagenaria siceraria</i> (1), <i>Lens culinaris</i> (1), <i>Lepidium sativum</i> (1), <i>Lupinus albus</i> (1), <i>Pisum sativum</i> (1), <i>Raphanus sativus</i> (1), <i>Spinacia oleracea</i> (1), <i>Triticum turgidum</i> subsp. <i>durum</i> (1)	<i>Cucurbita</i> sp. (1), <i>Medicago</i> sp. (1), <i>Mentha</i> sp. (1)

District	Crop (number of landraces)	Genera (number of landraces)
Braga (393)	<i>Phaseolus vulgaris</i> (74), <i>Zea mays</i> subsp. <i>mays</i> (72), <i>Vitis vinifera</i> (45), <i>Malus domestica</i> (19), <i>Allium sativum</i> (17), <i>Vigna unguiculata</i> (16), <i>Brassica rapa</i> subsp. <i>rapa</i> (13), <i>Brassica rapa</i> (12), <i>Pisum sativum</i> (12), <i>Cucurbita pepo</i> (10), <i>Secale cereale</i> (10), <i>Allium cepa</i> (8), <i>Cucumis melo</i> (6), <i>Lolium multiflorum</i> (6), <i>Phaseolus coccineus</i> (6), <i>Cucurbita maxima</i> (5), <i>Brassica oleracea</i> var. <i>acephala</i> (4), <i>Brassica oleracea</i> var. <i>costata</i> (4), <i>Capsicum annuum</i> (4), <i>Lactuca sativa</i> (4), <i>Avena sativa</i> (3), <i>Brassica napus</i> (3), <i>Citrullus lanatus</i> (3), <i>Lagenaria siceraria</i> (3), <i>Linum usitatissimum</i> (3), <i>Pyrus communis</i> (3), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (6), <i>Coriandrum sativum</i> (2), <i>Corylus avellana</i> (2), <i>Cucumis sativus</i> (2), <i>Triticum aestivum</i> subsp. <i>aestivum</i> (2), <i>Vicia faba</i> (2), <i>Allium ampeloprasum</i> (1), <i>Avena strigosa</i> (1), <i>Capsicum frutescens</i> (1), <i>Cucurbita ficifolia</i> (1), <i>Helianthus annuus</i> (1), <i>Holcus lanatus</i> (1), <i>Lolium perenne</i> (1), <i>Lupinus albus</i> (1), <i>Ornithopus compressus</i> (1), <i>Ornithopus sativus</i> (1), <i>Panicum miliaceum</i> (1), <i>Petroselinum crispum</i> (1)	<i>Avena</i> sp. (1), <i>Lolium</i> sp. (1), <i>Ocimum</i> sp. (1)
Bragança (849)	<i>Phaseolus vulgaris</i> (152), <i>Vitis vinifera</i> (151), <i>Capsicum annuum</i> (39), <i>Pyrus communis</i> (38), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (35), <i>Cucumis melo</i> (27), <i>Zea mays</i> subsp. <i>mays</i> (27), <i>Lactuca sativa</i> (25), <i>Brassica rapa</i> subsp. <i>rapa</i> (22), <i>Brassica rapa</i> (21), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (20), <i>Vigna unguiculata</i> (19), <i>Olea europaea</i> (18), <i>Cicer arietinum</i> (14), <i>Citrullus lanatus</i> (14), <i>Malus domestica</i> (14), <i>Triticum aestivum</i> subsp. <i>aestivum</i> (14), <i>Brassica oleracea</i> var. <i>costata</i> (11), <i>Prunus avium</i> (11), <i>Cucumis sativus</i> (10), <i>Cucurbita pepo</i> (10), <i>Pisum sativum</i> (10), <i>Allium cepa</i> (9), <i>Avena sativa</i> (9), <i>Brassica oleracea</i> var. <i>acephala</i> (8), <i>Castanea sativa</i> (8), <i>Ficus carica</i> (8), <i>Allium sativum</i> (7), <i>Cucurbita maxima</i> (7), <i>Lupinus albus</i> (7), <i>Juglans regia</i> (6), <i>Secale cereale</i> (6), <i>Vicia faba</i> (6), <i>Lathyrus sativus</i> (5), <i>Prunus dulcis</i> (5), <i>Sorghum bicolor</i> (5), <i>Capsicum frutescens</i> (4), <i>Cucurbita moschata</i> (4), <i>Raphanus sativus</i> (4), <i>Vigna unguiculata</i> subsp. <i>sesquipedalis</i> (4), <i>Brassica napus</i> (3), <i>Linum usitatissimum</i> (3), <i>Phaseolus coccineus</i> (3), <i>Beta vulgaris</i> subsp. <i>vulgaris</i> (2), <i>Hordeum vulgare</i> subsp. <i>vulgare</i> (2), <i>Lens culinaris</i> (2), <i>Punica granatum</i> (2), <i>Allium ampeloprasum</i> (1), <i>Avena strigosa</i> (1), <i>Brassica oleracea</i> var. <i>capitata</i> (1), <i>Brassica oleracea</i> var. <i>sabauda</i> (1), <i>Capsicum chinense</i> (1), <i>Coriandrum sativum</i> (1), <i>Cucurbita ficifolia</i> (1), <i>Cydonia oblonga</i> (1), <i>Helianthus annuus</i> (1), <i>Lagenaria siceraria</i> (1), <i>Morus nigra</i> (1), <i>Ocimum basilicum</i> (1), <i>Petroselinum crispum</i> (1), <i>Prunus domestica</i> (1), <i>Setaria italica</i> (1), <i>Solanum melongena</i> (1), <i>Triticum turgidum</i> subsp. <i>durum</i> (1), <i>Vicia articulata</i> (1)	<i>Vicia</i> sp. (3), <i>Avena</i> sp. (1), <i>Brassica</i> sp. (1), <i>Lupinus</i> sp. (1)
Castelo Branco (134)	<i>Malus domestica</i> (24), <i>Phaseolus vulgaris</i> (24), <i>Zea mays</i> subsp. <i>mays</i> (19), <i>Olea europaea</i> (9), <i>Vigna unguiculata</i> (9), <i>Allium cepa</i> (3), <i>Brassica oleracea</i> var. <i>acephala</i> (3), <i>Linum usitatissimum</i> (3), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (5), <i>Allium sativum</i> (2), <i>Brassica oleracea</i> var. <i>costata</i> (2), <i>Brassica rapa</i> subsp. <i>rapa</i> (2), <i>Cicer arietinum</i> (2), <i>Cucumis melo</i> (2), <i>Cucurbita pepo</i> (2), <i>Diospyros kaki</i> (2), <i>Brassica napus</i> (1), <i>Castanea sativa</i> (1), <i>Citrullus lanatus</i> (1), <i>Citrus sinensis</i> (1), <i>Coriandrum sativum</i> (1), <i>Cucurbita moschata</i> (1), <i>Cydonia oblonga</i> (1), <i>Ficus carica</i> (1), <i>Juglans regia</i> (1), <i>Lactuca sativa</i> (1), <i>Lupinus luteus</i> (1), <i>Origanum vulgare</i> subsp. <i>virens</i> (1), <i>Phaseolus coccineus</i> (1), <i>Pisum sativum</i> (1), <i>Prunus avium</i> (1), <i>Pyrus communis</i> (1), <i>Raphanus sativus</i> (1), <i>Secale cereale</i> (1), <i>Triticum aestivum</i> subsp. <i>aestivum</i> (1), <i>Vicia faba</i> (1), <i>Vicia sativa</i> (1)	<i>Brassica</i> sp. (2), <i>Lolium</i> sp. (1), <i>Mentha</i> sp. (1)
Coimbra (302)	<i>Phaseolus vulgaris</i> (83), <i>Vitis vinifera</i> (62), <i>Zea mays</i> subsp. <i>mays</i> (37), <i>Brassica rapa</i> (17), <i>Brassica oleracea</i> var. <i>acephala</i> (9), <i>Pisum sativum</i> (8), <i>Pyrus communis</i> (8), <i>Secale cereale</i> (7), <i>Brassica oleracea</i> var. <i>costata</i> (6), <i>Lactuca sativa</i> (6), <i>Triticum aestivum</i> subsp. <i>aestivum</i> (6), <i>Brassica rapa</i> subsp. <i>rapa</i> (5), <i>Vicia faba</i> (5), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (6), <i>Vigna unguiculata</i> (4), <i>Allium sativum</i> (3), <i>Avena sativa</i> (3), <i>Cucurbita pepo</i> (3), <i>Triticum turgidum</i> subsp. <i>durum</i> (3), <i>Lupinus albus</i> (2), <i>Malus</i>	<i>Brassica</i> sp. (1), <i>Cucurbita</i> sp. (1), <i>Lupinus</i> sp. (1)

District	Crop (number of landraces)	Genera (number of landraces)
	<i>domestica</i> (2), <i>Allium cepa</i> (1), <i>Beta vulgaris</i> subsp. <i>vulgaris</i> (1), <i>Brassica napus</i> (1), <i>Capsicum annuum</i> (1), <i>Cicer arietinum</i> (1), <i>Citrullus lanatus</i> (1), <i>Coriandrum sativum</i> (1), <i>Cucumis melo</i> (1), <i>Cucurbita ficifolia</i> (1), <i>Cucurbita maxima</i> (1), <i>Hordeum vulgare</i> subsp. <i>vulgare</i> (1), <i>Lathyrus sativus</i> (1), <i>Lupinus luteus</i> (1), <i>Petroselinum crispum</i> (1), <i>Phaseolus coccineus</i> (1), <i>Prunus domestica</i> (1), <i>Prunus persica</i> (1)	
Évora (387)	<i>Phaseolus vulgaris</i> (53), <i>Vitis vinifera</i> (51), <i>Pyrus communis</i> (33), <i>Lactuca sativa</i> (19), <i>Prunus domestica</i> (17), <i>Prunus persica</i> (16), <i>Cucumis melo</i> (15), <i>Ficus carica</i> (15), <i>Olea europaea</i> (13), <i>Allium sativum</i> (12), <i>Capsicum annuum</i> (12), <i>Zea mays</i> subsp. <i>mays</i> (11), <i>Citrus sinensis</i> (7), <i>Cucurbita pepo</i> (7), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (7), <i>Vigna unguiculata</i> (7), <i>Vicia faba</i> (6), <i>Allium cepa</i> (5), <i>Cucumis sativus</i> (5), <i>Punica granatum</i> (5), <i>Vigna unguiculata</i> subsp. <i>sesquipedalis</i> (5), <i>Cicer arietinum</i> (4), <i>Malus domestica</i> (4), <i>Brassica rapa</i> (3), <i>Coriandrum sativum</i> (3), <i>Nasturtium officinale</i> (3), <i>Brassica oleracea</i> var. <i>acephala</i> (2), <i>Citrullus lanatus</i> (2), <i>Citrus limon</i> (2), <i>Citrus reticulata</i> (2), <i>Cucurbita maxima</i> (2), <i>Cucurbita moschata</i> (2), <i>Diospyros kaki</i> (2), <i>Hordeum vulgare</i> subsp. <i>vulgare</i> (2), <i>Ipomoea batatas</i> (2), <i>Lathyrus sativus</i> (2), <i>Petroselinum crispum</i> (2), <i>Pisum sativum</i> (2), <i>Portulaca oleracea</i> (2), <i>Spinacia oleracea</i> (2), <i>Allium ascalonicum</i> (1), <i>Arbutus unedo</i> (1), <i>Avena sativa</i> (1), <i>Beta vulgaris</i> subsp. <i>vulgaris</i> (2), <i>Brassica oleracea</i> var. <i>costata</i> (1), <i>Brassica oleracea</i> var. <i>italica</i> (1), <i>Brassica rapa</i> subsp. <i>rapa</i> (1), <i>Ceratonia siliqua</i> (1), <i>Cucurbita ficifolia</i> (1), <i>Cydonia oblonga</i> (1), <i>Eriobotrya japonica</i> (1), <i>Lagenaria siceraria</i> (1), <i>Laurus nobilis</i> (1), <i>Lepidium sativum</i> (1), <i>Prunus cerasus</i> (1), <i>Raphanus sativus</i> (1), <i>Secale cereale</i> (1), <i>Solanum lycopersicum</i> (1), <i>Triticum aestivum</i> subsp. <i>aestivum</i> (1), <i>Vicia sativa</i> (1)	<i>Avena</i> sp. (1), <i>Lathyrus</i> sp. (1)
Faro (553)	<i>Phaseolus vulgaris</i> (99), <i>Ficus carica</i> (54), <i>Zea mays</i> subsp. <i>mays</i> (50), <i>Vitis vinifera</i> (44), <i>Pyrus communis</i> (42), <i>Prunus domestica</i> (34), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (33), <i>Prunus dulcis</i> (18), <i>Citrus sinensis</i> (15), <i>Pisum sativum</i> (15), <i>Capsicum annuum</i> (12), <i>Cucurbita pepo</i> (11), <i>Avena sativa</i> (10), <i>Olea europaea</i> (8), <i>Cucumis sativus</i> (6), <i>Vicia faba</i> (6), <i>Citrus reticulata</i> (5), <i>Lactuca sativa</i> (5), <i>Lathyrus sativus</i> (5), <i>Lupinus albus</i> (5), <i>Triticum aestivum</i> (5), <i>Citrullus lanatus</i> (4), <i>Ipomoea batatas</i> (4), <i>Brassica oleracea</i> var. <i>acephala</i> (3), <i>Cicer arietinum</i> (3), <i>Citrus limon</i> (3), <i>Cucumis melo</i> (3), <i>Cucurbita ficifolia</i> (3), <i>Cucurbita maxima</i> (3), <i>Cucurbita moschata</i> (3), <i>Prunus persica</i> (3), <i>Punica granatum</i> (3), <i>Allium sativum</i> (2), <i>Coriandrum sativum</i> (2), <i>Daucus carota</i> (2), <i>Hordeum vulgare</i> subsp. <i>vulgare</i> (2), <i>Lagenaria siceraria</i> (2), <i>Malus domestica</i> (2), <i>Prunus armeniaca</i> (2), <i>Raphanus sativus</i> (2), <i>Secale cereale</i> (2), <i>Vigna unguiculata</i> (2), <i>Allium cepa</i> (1), <i>Arachis hypogaea</i> (1), <i>Brassica oleracea</i> var. <i>capitata</i> (1), <i>Cajanus cajan</i> (1), <i>Ceratonia siliqua</i> (1), <i>Cydonia oblonga</i> (1), <i>Eriobotrya japonica</i> (1), <i>Lepidium sativum</i> (1), <i>Linum usitatissimum</i> (1), <i>Luffa aegyptiaca</i> (1), <i>Lupinus luteus</i> (1), <i>Petroselinum crispum</i> (1), <i>Phaseolus coccineus</i> (1), <i>Triticum turgidum</i> subsp. <i>durum</i> (1), <i>Vicia ervilia</i> (1), <i>Vigna unguiculata</i> subsp. <i>sesquipedalis</i> (1)	<i>Cucurbita</i> sp. (1), <i>Brassica</i> sp. (1)

District	Crop (number of landraces)	Genera (number of landraces)
Guarda (367)	<i>Vitis vinifera</i> (129), <i>Phaseolus vulgaris</i> (55), <i>Zea mays</i> subsp. <i>mays</i> (24), <i>Brassica rapa</i> subsp. <i>rapa</i> (13), <i>Olea europaea</i> (12), <i>Brassica rapa</i> (10), <i>Vigna unguiculata</i> (9), <i>Pisum sativum</i> (8), <i>Lactuca sativa</i> (7), <i>Malus domestica</i> (7), <i>Allium cepa</i> (6), <i>Brassica oleracea</i> var. <i>acephala</i> (6), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (6), <i>Capsicum annuum</i> (5), <i>Cucurbita pepo</i> (5), <i>Prunus dulcis</i> (5), <i>Triticum aestivum</i> subsp. <i>aestivum</i> (5), <i>Brassica oleracea</i> var. <i>costata</i> (4), <i>Raphanus sativus</i> (4), <i>Allium sativum</i> (3), <i>Brassica napus</i> (3), <i>Cicer arietinum</i> (3), <i>Avena sativa</i> (2), <i>Capsicum frutescens</i> (2), <i>Coriandrum sativum</i> (2), <i>Cucumis melo</i> (2), <i>Cucumis sativus</i> (2), <i>Cucurbita maxima</i> (2), <i>Cucurbita moschata</i> (2), <i>Hordeum vulgare</i> subsp. <i>vulgare</i> (3), <i>Secale cereale</i> (2), <i>Vicia faba</i> (2), <i>Avena strigosa</i> (1), <i>Beta vulgaris</i> subsp. <i>vulgaris</i> (1), <i>Citrullus lanatus</i> (1), <i>Lagenaria siceraria</i> (1), <i>Lathyrus cicera</i> (1), <i>Linum usitatissimum</i> (1), <i>Lolium multiflorum</i> (1), <i>Lupinus albus</i> (1), <i>Lupinus luteus</i> (1), <i>Nasturtium officinale</i> (1), <i>Petroselinum crispum</i> (1), <i>Phaseolus coccineus</i> (1), <i>Setaria italica</i> (1), <i>Spinacia oleracea</i> (1), <i>Triticum turgidum</i> subsp. <i>durum</i> (1), <i>Vicia ervilia</i> (1), <i>Vigna unguiculata</i> subsp. <i>sesquipedalis</i> (1)	<i>Cucurbita</i> sp. (4), <i>Brassica</i> sp. (3), <i>Lolium</i> sp. (2), <i>Lathyrus</i> sp. (1), <i>Ornithopus</i> sp. (1), <i>Vicia</i> sp. (1)
Leiria (200)	<i>Vitis vinifera</i> (83), <i>Phaseolus vulgaris</i> (22), <i>Pyrus communis</i> (20), <i>Zea mays</i> subsp. <i>mays</i> (12), <i>Brassica rapa</i> (8), <i>Vigna unguiculata</i> (7), <i>Brassica oleracea</i> var. <i>acephala</i> (4), <i>Lactuca sativa</i> (4), <i>Lathyrus sativus</i> (4), <i>Cucurbita pepo</i> (3), <i>Malus domestica</i> (3), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (4), <i>Vicia faba</i> (3), <i>Allium cepa</i> (2), <i>Avena sativa</i> (2), <i>Brassica oleracea</i> var. <i>italica</i> (2), <i>Cucurbita ficifolia</i> (2), <i>Olea europaea</i> (2), <i>Pisum sativum</i> (2), <i>Solanum melongena</i> (2), <i>Beta vulgaris</i> subsp. <i>vulgaris</i> (1), <i>Brassica oleracea</i> var. <i>costata</i> (1), <i>Cicer arietinum</i> (1), <i>Coriandrum sativum</i> (1), <i>Cucurbita maxima</i> (1), <i>Linum usitatissimum</i> (1), <i>Lupinus albus</i> (1), <i>Nasturtium officinale</i> (1), <i>Secale cereale</i> (1)	<i>Cucurbita</i> sp. (3)
Lisbon (97)	<i>Vitis vinifera</i> (56), <i>Phaseolus vulgaris</i> (7), <i>Capsicum frutescens</i> (3), <i>Cicer arietinum</i> (3), <i>Vicia faba</i> (3), <i>Capsicum annuum</i> (2), <i>Cucumis melo</i> (2), <i>Allium cepa</i> (1), <i>Brassica rapa</i> subsp. <i>rapa</i> (1), <i>Capsicum chinense</i> (1), <i>Cucumis sativus</i> (1), <i>Cucurbita ficifolia</i> (1), <i>Cucurbita moschata</i> (1), <i>Cucurbita pepo</i> (1), <i>Lathyrus tingitanus</i> (1), <i>Lupinus albus</i> (1), <i>Satureja hortensis</i> (1), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (9), <i>Vicia sativa</i> (1), <i>Zea mays</i> subsp. <i>mays</i> (1)	<i>Triticum</i> sp. (49), <i>Medicago</i> sp. (1)
Madeira Autonomous Region (274)	<i>Phaseolus vulgaris</i> (72), <i>Zea mays</i> subsp. <i>mays</i> (34), <i>Triticum aestivum</i> subsp. <i>aestivum</i> (22), <i>Vitis vinifera</i> (13), <i>Vicia faba</i> (11), <i>Ficus carica</i> (8), <i>Pisum sativum</i> (8), <i>Solanum tuberosum</i> (8), <i>Colocasia esculenta</i> (7), <i>Triticum aestivum</i> subsp. <i>compactum</i> (6), <i>Triticum turgidum</i> subsp. <i>durum</i> (6), <i>Brassica oleracea</i> (5), <i>Cucurbita pepo</i> (5), <i>Allium cepa</i> (4), <i>Capsicum baccatum</i> (4), <i>Ipomoea batatas</i> (4), <i>Phaseolus coccineus</i> (4), <i>Capsicum annuum</i> (3), <i>Cucurbita ficifolia</i> (3), <i>Hordeum vulgare</i> subsp. <i>vulgare</i> (4), <i>Linum usitatissimum</i> (3), <i>Lupinus albus</i> (3), <i>Saccharum officinarum</i> (3), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (5), <i>Annona cherimola</i> (2), <i>Capsicum frutescens</i> (2), <i>Carica papaya</i> (2), <i>Cucumis sativus</i> (2), <i>Lactuca sativa</i> (2), <i>Malus domestica</i> (2), <i>Passiflora edulis</i> (2), <i>Beta vulgaris</i> subsp. <i>vulgaris</i> (1), <i>Brassica oleracea</i> var. <i>acephala</i> (1), <i>Citrus limon</i> (1), <i>Citrus sinensis</i> (1), <i>Cucurbita moschata</i> (1), <i>Foeniculum vulgare</i> (1), <i>Lathyrus sativus</i> (1), <i>Nasturtium officinale</i> (1), <i>Passiflora ligularis</i> (1), <i>Persea americana</i> (1), <i>Petroselinum crispum</i> (1), <i>Pyrus communis</i> (1), <i>Secale cereale</i> (1), <i>Triticum turgidum</i> subsp. <i>turgidum</i> (1), <i>Vicia sativa</i> (1)	<i>Cucurbita</i> sp. (26), <i>Triticum</i> sp. (12), <i>Brassica</i> sp. (8), <i>Musa</i> sp. (3), <i>Passiflora</i> sp. (3), <i>Allium</i> sp. (2), <i>Capsicum</i> sp. (2), <i>Avena</i> sp. (1), <i>Phaseolus</i> sp. (1), <i>Physalis</i> sp. (1)

District	Crop (number of landraces)	Genera (number of landraces)
Portalegre (215)	<i>Phaseolus vulgaris</i> (44), <i>Vitis vinifera</i> (35), <i>Zea mays</i> subsp. <i>mays</i> (12), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (12), <i>Cucurbita moschata</i> (9), <i>Citrullus lanatus</i> (8), <i>Olea europaea</i> (8), <i>Allium sativum</i> (7), <i>Cucurbita pepo</i> (7), <i>Brassica oleracea</i> var. <i>acephala</i> (5), <i>Vicia faba</i> (5), <i>Capsicum annuum</i> (4), <i>Capsicum frutescens</i> (4), <i>Cucumis melo</i> (4), <i>Cucurbita maxima</i> (4), <i>Triticum aestivum</i> subsp. <i>aestivum</i> (4), <i>Allium cepa</i> (3), <i>Brassica rapa</i> (3), <i>Vigna unguiculata</i> (3), <i>Brassica oleracea</i> var. <i>costata</i> (2), <i>Capsicum chinense</i> (2), <i>Cicer arietinum</i> (2), <i>Coriandrum sativum</i> (2), <i>Lactuca sativa</i> (2), <i>Lagenaria siceraria</i> (2), <i>Pisum sativum</i> (2), <i>Raphanus sativus</i> (2), <i>Vigna unguiculata</i> subsp. <i>sesquipedalis</i> (2), <i>Allium ampeloprasum</i> (1), <i>Avena sativa</i> (1), <i>Citrus sinensis</i> (1), <i>Corylus avellana</i> (1), <i>Cucumis sativus</i> (1), <i>Cydonia oblonga</i> (1), <i>Lupinus albus</i> (1), <i>Malus domestica</i> (1), <i>Nasturtium officinale</i> (1), <i>Petroselinum crispum</i> (1), <i>Portulaca oleracea</i> (1), <i>Prunus domestica</i> (1), <i>Punica granatum</i> (1), <i>Pyrus communis</i> (1), <i>Satureja hortensis</i> (1), <i>Secale cereale</i> (1)	<i>Brassica</i> sp. (3), <i>Avena</i> sp. (1), <i>Cucurbita</i> sp. (1)
Porto (181)	<i>Vitis vinifera</i> (45), <i>Zea mays</i> subsp. <i>mays</i> (35), <i>Phaseolus vulgaris</i> (22), <i>Allium cepa</i> (7), <i>Lolium multiflorum</i> (7), <i>Lactuca sativa</i> (6), <i>Brassica rapa</i> subsp. <i>rapa</i> (5), <i>Allium sativum</i> (4), <i>Brassica oleracea</i> var. <i>costata</i> (4), <i>Capsicum annuum</i> (4), <i>Cucurbita pepo</i> (4), <i>Linum usitatissimum</i> (4), <i>Pisum sativum</i> (4), <i>Corylus avellana</i> (3), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (4), <i>Brassica oleracea</i> var. <i>acephala</i> (2), <i>Cucumis melo</i> (2), <i>Phaseolus coccineus</i> (2), <i>Vigna unguiculata</i> (2), <i>Avena sativa</i> (1), <i>Avena strigosa</i> (1), <i>Brassica napus</i> (1), <i>Capsicum frutescens</i> (1), <i>Citrullus lanatus</i> (1), <i>Cucumis sativus</i> (1), <i>Cucurbita ficifolia</i> (1), <i>Cucurbita maxima</i> (1), <i>Malus domestica</i> (1), <i>Ornithopus sativus</i> (1), <i>Petroselinum crispum</i> (1), <i>Pyrus communis</i> (1), <i>Secale cereale</i> (1), <i>Solanum melongena</i> (1), <i>Vicia faba</i> (1)	
Santarém (369)	<i>Phaseolus vulgaris</i> (89), <i>Vitis vinifera</i> (56), <i>Lactuca sativa</i> (21), <i>Zea mays</i> subsp. <i>mays</i> (21), <i>Brassica rapa</i> (18), <i>Brassica oleracea</i> var. <i>acephala</i> (14), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (19), <i>Cucumis melo</i> (10), <i>Allium cepa</i> (8), <i>Vicia faba</i> (8), <i>Cucurbita maxima</i> (7), <i>Raphanus sativus</i> (6), <i>Vigna unguiculata</i> (6), <i>Capsicum annuum</i> (5), <i>Capsicum frutescens</i> (5), <i>Cucurbita moschata</i> (5), <i>Cucurbita pepo</i> (5), <i>Allium sativum</i> (4), <i>Brassica oleracea</i> var. <i>costata</i> (4), <i>Citrullus lanatus</i> (4), <i>Lupinus albus</i> (4), <i>Olea europaea</i> (4), <i>Cucurbita ficifolia</i> (3), <i>Lagenaria siceraria</i> (3), <i>Phaseolus coccineus</i> (3), <i>Allium ampeloprasum</i> (2), <i>Capsicum chinense</i> (2), <i>Cucumis melo</i> var. <i>reticulatus</i> (2), <i>Cucumis sativus</i> (2), <i>Ficus carica</i> (2), <i>Pisum sativum</i> (2), <i>Avena sativa</i> (1), <i>Beta vulgaris</i> subsp. <i>vulgaris</i> (2), <i>Brassica oleracea</i> var. <i>capitata</i> (1), <i>Brassica oleracea</i> var. <i>sabauda</i> (1), <i>Cicer arietinum</i> (1), <i>Cichorium endivia</i> (1), <i>Citrus reticulata</i> (1), <i>Citrus sinensis</i> (1), <i>Coriandrum sativum</i> (1), <i>Daucus carota</i> (1), <i>Helianthus annuus</i> (1), <i>Hordeum vulgare</i> subsp. <i>vulgare</i> (1), <i>Lathyrus sativus</i> (1), <i>Lepidium sativum</i> (1), <i>Lupinus luteus</i> (1), <i>Malus domestica</i> (1), <i>Nasturtium officinale</i> (1), <i>Ocimum basilicum</i> (1), <i>Petroselinum crispum</i> (1), <i>Satureja hortensis</i> (1), <i>Setaria italica</i> (1), <i>Sorghum bicolor</i> (1), <i>Spinacia oleracea</i> (1), <i>Triticum turgidum</i> subsp. <i>durum</i> (1)	<i>Cucurbita</i> sp. (4), <i>Lathyrus</i> sp. (1), <i>Vicia</i> sp. (1)

District	Crop (number of landraces)	Genera (number of landraces)
Setúbal (360)	<i>Vitis vinifera</i> (223), <i>Phaseolus vulgaris</i> (33), <i>Malus domestica</i> (11), <i>Zea mays</i> subsp. <i>mays</i> (8), <i>Pyrus communis</i> (6), <i>Allium cepa</i> (5), <i>Citrus sinensis</i> (5), <i>Ficus carica</i> (4), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (6), <i>Avena sativa</i> (3), <i>Brassica oleracea</i> var. <i>acephala</i> (3), <i>Citrullus lanatus</i> (3), <i>Olea europaea</i> (3), <i>Prunus persica</i> (3), <i>Allium sativum</i> (2), <i>Capsicum annuum</i> (2), <i>Cicer arietinum</i> (2), <i>Coriandrum sativum</i> (2), <i>Cucurbita pepo</i> (2), <i>Lathyrus sativus</i> (2), <i>Prunus domestica</i> (2), <i>Punica granatum</i> (2), <i>Apium graveolens</i> (1), <i>Brassica oleracea</i> var. <i>costata</i> (1), <i>Brassica rapa</i> (1), <i>Capsicum frutescens</i> (1), <i>Castanea sativa</i> (1), <i>Citrus reticulata</i> (1), <i>Cucumis melo</i> (1), <i>Cucurbita ficifolia</i> (1), <i>Cucurbita maxima</i> (1), <i>Cucurbita moschata</i> (1), <i>Cydonia oblonga</i> (1), <i>Helianthus annuus</i> (1), <i>Lactuca sativa</i> (1), <i>Lagenaria siceraria</i> (1), <i>Lepidium sativum</i> (1), <i>Lupinus albus</i> (1), <i>Lupinus luteus</i> (1), <i>Morus nigra</i> (1), <i>Nasturtium officinale</i> (1), <i>Petroselinum crispum</i> (1), <i>Pisum sativum</i> (1), <i>Prunus avium</i> (1), <i>Prunus cerasus</i> (1), <i>Raphanus sativus</i> (1), <i>Spinacia oleracea</i> (1), <i>Triticum turgidum</i> subsp. <i>durum</i> (1), <i>Vicia faba</i> (1), <i>Vigna unguiculata</i> (1)	<i>Lathyrus</i> sp. (1)
Viana do Castelo (330)	<i>Phaseolus vulgaris</i> (109), <i>Zea mays</i> subsp. <i>mays</i> (57), <i>Vitis vinifera</i> (45), <i>Lactuca sativa</i> (12), <i>Pisum sativum</i> (11), <i>Phaseolus coccineus</i> (8), <i>Allium sativum</i> (7), <i>Malus domestica</i> (7), <i>Secale cereale</i> (7), <i>Allium cepa</i> (6), <i>Lolium multiflorum</i> (6), <i>Brassica rapa</i> (5), <i>Cucurbita pepo</i> (5), <i>Vicia faba</i> (5), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (6), <i>Brassica rapa</i> subsp. <i>rapa</i> (3), <i>Linum usitatissimum</i> (3), <i>Avena sativa</i> (2), <i>Brassica oleracea</i> var. <i>acephala</i> (2), <i>Corylus avellana</i> (2), <i>Cucurbita maxima</i> (2), <i>Pyrus communis</i> (2), <i>Vigna unguiculata</i> (2), <i>Avena strigosa</i> (1), <i>Brassica napus</i> (1), <i>Brassica oleracea</i> var. <i>costata</i> (1), <i>Capsicum baccatum</i> (1), <i>Citrus sinensis</i> (1), <i>Cucumis melo</i> (1), <i>Cucumis sativus</i> (1), <i>Cucurbita ficifolia</i> (1), <i>Holcus lanatus</i> (1), <i>Hordeum vulgare</i> subsp. <i>vulgare</i> (1), <i>Lagenaria siceraria</i> (1), <i>Lupinus albus</i> (1), <i>Lupinus luteus</i> (1), <i>Ornithopus compressus</i> (1), <i>Ornithopus sativus</i> (1), <i>Petroselinum crispum</i> (1)	<i>Brassica</i> sp. (1), <i>Cucurbita</i> sp. (1)
Vila Real (370)	<i>Vitis vinifera</i> (132), <i>Phaseolus vulgaris</i> (66), <i>Zea mays</i> subsp. <i>mays</i> (23), <i>Brassica rapa</i> subsp. <i>rapa</i> (16), <i>Pyrus communis</i> (16), <i>Allium cepa</i> (9), <i>Olea europaea</i> (8), <i>Phaseolus coccineus</i> (8), <i>Malus domestica</i> (7), <i>Pisum sativum</i> (7), <i>Brassica oleracea</i> var. <i>costata</i> (6), <i>Cucurbita pepo</i> (6), <i>Brassica rapa</i> (5), <i>Lactuca sativa</i> (5), <i>Prunus dulcis</i> (5), <i>Vigna unguiculata</i> (5), <i>Linum usitatissimum</i> (4), <i>Corylus avellana</i> (3), <i>Secale cereale</i> (3), <i>Triticum aestivum</i> subsp. <i>aestivum</i> (3), <i>Allium sativum</i> (2), <i>Brassica napus</i> (2), <i>Brassica oleracea</i> var. <i>capitata</i> (2), <i>Capsicum annuum</i> (2), <i>Cucumis sativus</i> (2), <i>Cucurbita maxima</i> (2), <i>Holcus lanatus</i> (2), <i>Lolium multiflorum</i> (2), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (3), <i>Vicia faba</i> (2), <i>Avena sativa</i> (1), <i>Brassica oleracea</i> var. <i>acephala</i> (1), <i>Brassica oleracea</i> var. <i>sabauda</i> (1), <i>Capsicum frutescens</i> (1), <i>Cicer arietinum</i> (1), <i>Cucurbita ficifolia</i> (1), <i>Daucus carota</i> (1), <i>Lupinus luteus</i> (1), <i>Petroselinum crispum</i> (1), <i>Plantago lanceolata</i> (1), <i>Setaria italica</i> (1), <i>Spinacia oleracea</i> (1)	<i>Lathyrus</i> sp. (1), <i>Lolium</i> sp. (1), <i>Lupinus</i> sp. (1)

District	Crop (number of landraces)	Genera (number of landraces)
Viseu (462)	<i>Vitis vinifera</i> (148), <i>Phaseolus vulgaris</i> (75), <i>Malus domestica</i> (68), <i>Zea mays</i> subsp. <i>mays</i> (33), <i>Cucurbita pepo</i> (10), <i>Pyrus communis</i> (10), <i>Brassica rapa</i> (9), <i>Pisum sativum</i> (9), <i>Brassica oleracea</i> var. <i>acephala</i> (8), <i>Brassica rapa</i> subsp. <i>rapa</i> (8), <i>Allium sativum</i> (7), <i>Phaseolus coccineus</i> (6), <i>Allium cepa</i> (5), <i>Brassica oleracea</i> var. <i>costata</i> (5), <i>Prunus dulcis</i> (5), <i>Linum usitatissimum</i> (4), <i>Capsicum annuum</i> (3), <i>Corylus avellana</i> (3), <i>Lactuca sativa</i> (3), <i>Lupinus albus</i> (3), <i>Solanum lycopersicum</i> var. <i>lycopersicum</i> (5), <i>Triticum aestivum</i> subsp. <i>aestivum</i> (3), <i>Vigna unguiculata</i> (3), <i>Avena sativa</i> (2), <i>Cicer arietinum</i> (2), <i>Cucumis sativus</i> (2), <i>Vicia faba</i> (2), <i>Asparagus officinalis</i> (1), <i>Beta vulgaris</i> subsp. <i>vulgaris</i> (1), <i>Brassica napus</i> (1), <i>Brassica oleracea</i> var. <i>capitata</i> (1), <i>Brassica oleracea</i> var. <i>sabauda</i> (1), <i>Capsicum frutescens</i> (1), <i>Cichorium intybus</i> (1), <i>Citrullus lanatus</i> (1), <i>Coriandrum sativum</i> (1), <i>Cucumis melo</i> (1), <i>Cucurbita maxima</i> (1), <i>Daucus carota</i> (1), <i>Hordeum vulgare</i> subsp. <i>vulgare</i> (1), <i>Lagenaria siceraria</i> (1), <i>Olea europaea</i> (1), <i>Raphanus sativus</i> (1), <i>Secale cereale</i> (1), <i>Setaria italica</i> (1), <i>Sinapis alba</i> (1), <i>Spinacia oleracea</i> (1), <i>Vigna unguiculata</i> subsp. <i>sesquipedalis</i> (1)	<i>Lolium</i> sp. (3), <i>Cucurbita</i> sp. (2)

Supplementary Table S4. Number of landraces per crop taxon for each undefined territory.

Undefined territory	Crop (number of landraces)	Landraces per genus
Azores (53)	<i>Vitis vinifera</i> (22), <i>Phaseolus vulgaris</i> (15), <i>Malus domestica</i> (9), <i>Zea mays</i> subsp. <i>mays</i> (2), <i>Capsicum annuum</i> (1), <i>Lupinus albus</i> (1), <i>Passiflora edulis</i> (1), <i>Pisum sativum</i> (1), <i>Vicia faba</i> (1)	-
District unknown (not available) (1)	<i>Corylus avellana</i> (1)	-
Portugal mainland (9)	<i>Zea mays</i> subsp. <i>mays</i> (2), <i>Capsicum annuum</i> (1), <i>Cicer arietinum</i> (1), <i>Cucumis melo</i> (1), <i>Daucus carota</i> (1), <i>Phaseolus vulgaris</i> (1), <i>Vicia faba</i> (1), <i>Vigna unguiculata</i> (1)	<i>Triticum</i> sp. (1)

Supplementary Table S5. Number of landraces per crop group per district.

District	Group (number of landraces)	Number of landraces
Aveiro	Fruit and nuts (149), vegetables and melons (112), other crops (110), leguminous crops (106), cereals (60)	537
Azores – Corvo island	Vegetables and melons (5), fruit and nuts (5), root/tuber crops (2), cereals (1), leguminous crops (1)	14
Azores – Faial island	Vegetables and melons (26), leguminous crops (16), fruit and nuts (13), root/tuber crops (11), cereals (8), other crops (6)	80
Azores – Flores Island	Leguminous crops (21), vegetables and melons (19), fruit and nuts (15), cereals (14), root/tuber crops (9), other crops (1)	79
Azores – Graciosa island	Leguminous crops (31), fruit and nuts (27), vegetables and melons (23), root/tuber crops (5), other crops (5), cereals (4)	95
Azores – Pico island	Vegetables and melons (30), leguminous crops (26), fruit and nuts (19), root/tuber crops (4), cereals (4), other crops (3)	86
Azores – S. Jorge island	Vegetables and melons (22), leguminous crops (18), fruit and nuts (11), root/tuber crops (8), cereals (5), other crops (3), beverage and spice crops (1)	68
Azores – S. Miguel island	Vegetables and melons (35), leguminous crops (29), fruit and nuts (14), root/tuber crops (6), cereals (5), other crops (5), beverage and spice crops (1)	95
Azores – Sta. Maria island	Leguminous crops (38), vegetables and melons (25), fruit and nuts (13), root/tuber crops (10), cereals (4), other crops (3)	93
Azores – Terceira island	Leguminous crops (41), vegetables and melons (28), root/tuber crops (12), fruit and nuts (8), cereals (7), other crops (5)	101
Beja	Vegetables and melons (62), other crops (49), cereals (26), leguminous crops (26), fruit and nuts (7), NA (not available) (1)	171

District	Group (number of landraces)	Number of landraces
Braga	Leguminous crops (111), cereals (90), vegetables and melons (89), other crops (82), fruit and nuts (24)	396
Bragança	Vegetables and melons (282), leguminous crops (223), other crops (170), Fruit and nuts (113), Cereals (67)	855
Castelo Branco	Fruit and nuts (42), leguminous crops (39), vegetables and melons (26), cereals (21), other crops (10)	138
Coimbra	Leguminous crops (107), other crops (67), vegetables and melons (62), cereals (57), fruit and nuts (12)	305
Évora	Fruit and nuts (121), vegetables and melons (96), leguminous crops (79), other crops (74), cereals (17), root/tuber crops (2)	389
Faro	Fruit and nuts (192), leguminous crops (140), vegetables and melons (97), cereals (70), other crops (52), root/tuber crops (4)	555
Guarda	Other crops (144), vegetables and melons (91), leguminous crops (81), cereals (39), fruit and nuts (24)	379
Leiria	Other crops (85), leguminous crops (40), vegetables and melons (38), fruit and nuts (25), cereals (15)	203
Lisboa	Other crops (59), cereals (50), vegetables and melons (23), leguminous crops (14), NA (not available) (1)	147
Madeira	Leguminous crops (100), cereals (87), vegetables and melons (75), fruit and nuts (28), other crops (19), root/tuber crops (19), beverage and spice crops (3), NA (not available) (2)	333
Portalegre	Vegetables and melons (79), leguminous crops (59), other crops (48), cereals (19), fruit and nuts (15)	220
Porto	Other crops (62), vegetables and melons (45), cereals (38), leguminous crops (31), fruit and nuts (5)	181
Santarém	Vegetables and melons (156), leguminous crops (115), other crops (69), cereals (26), fruit and nuts (9)	375
Setúbal	Other crops (231), fruit and nuts (42), leguminous crops (42), vegetables and melons (34), cereals (12)	361

District	Group (number of landraces)	Number of landraces
Viana do Castelo	Leguminous crops (137), cereals (68), other crops (65), vegetables and melons (50), fruit and nuts (12)	332
Vila Real	Other crops (146), leguminous crops (91), vegetables and melons (66), fruit and nuts (39), cereals (31)	373
Viseu	Other crops (164), leguminous crops (101), fruit and nuts (87), vegetables and melons (74), cereals (41)	467
Undefined territories		
Azores	Other crops (22), Leguminous crops (18), Fruit and nuts (10), Cereals (2), Vegetables and melons (1)	53
District unknown (not available)	Fruit and nuts (1)	1
Portugal mainland	Leguminous crops (4), Vegetables and melons (3), Cereals (3)	10
Total		7,492