

A global database of soil seed bank richness, density and abundance

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Open Research statement

The database and associated code are stored as supplementary information to this data paper. Data are also archived at the Swedish National Data Service open-access repository:

<https://doi.org/10.5878/bvs7-gk47>.

CLASS I. DATA SET DESCRIPTORS

A. Data set identity

A global database of soil seed bank richness, density and abundance

B. Data set identification code

Data: DataS1.zip. The compressed folder contains the following files:

gsb_db.csv – the global seed bank database

gsb_code.R – code to produce summary information

data_entry_instructions.pdf – instruction document for data entry

Metadata: MetadataS1.pdf (this document).

C. Data set description

1. Originators

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2. Abstract

A soil seed bank is the collective name for viable seeds that are stored naturally in the soil. At the species or population level, the ability to form a seed bank represents a strategy for (re)colonization following a disturbance or other change in the local environmental conditions. At

the community level, seed banks are thought to buffer local diversity during periods of environmental change, and are often studied in relation to the potential for passive habitat restoration. The role that seed banks play in plant population and community dynamics, as well as their importance in the agricultural sector, means that they have been widely studied in ecological research. This database is the result of a comprehensive literature search, including all seed bank studies from the Web of Science from which data could be extracted, as well as an additional search of the Russian language literature. The database contains information on the species richness, seed density and/or seed abundance in 3096 records from at least 1929 locations across the world's seven continents, extracted from 1442 studies published between 1940 and 2020. Records are grouped into five broad habitat categories (aquatic, arable, forest, grassland – including shrubland – and wetland), including information relating to habitat degradation from, or restoration to other habitats (total 14 combinations). Sampling protocols were also extracted for each record, and the database was extensively checked for errors. The location of each record was then used to extract summary climate data and biome classification from external published databases. The database has several potential uses. The large geographical spread relative to many other global biodiversity datasets is relevant for investigating patterns of diversity in biogeographical or macroecological contexts. Habitat type and status (intact, degraded and restored) can be used to provide insights for biodiversity conservation, while potential effects of sampling method and effort can be used to inform optimized data collection for future seed bank studies.

D. Key words/phrases

Biodiversity, Dispersal, Global map, Plants, Seed bank, Seedbank, Species richness

CLASS II. RESEARCH ORIGIN DESCRIPTORS

Overall project description

The Earth is currently undergoing an era of rapid environmental change, characterized by both shifting means and extreme events that occur with increasing frequency and magnitude (IPCC 2021). Simultaneously, ecological communities are also threatened by the effects of past and ongoing habitat destruction (IPBES 2019). As such, the mechanisms by which species can persist despite environmental perturbations are vital for the maintenance of local biodiversity.

For plant species, one such mechanism is the production of seeds that are persistent (can remain viable for more than one year) rather than transient (can remain viable for up to one year; Thompson and Grime 1979). The storage of persistent seeds in soil seed banks is a strategy that allows populations to buffer periods of environmental heterogeneity (Crawley et al. 1997, Snyder 2006). This means that seed banks are important components of plant metapopulation and metacommunity dynamics (Alexander et al. 2012, Wisnoski and Shoemaker 2022), as well as contributing to the maintenance of species and genetic diversity of populations in the established vegetation (Honnay et al. 2008, Falahati-Anbaran et al. 2014, Plue and Cousins 2018).

Because the formation of persistent seed banks is a mechanism to deal with environmental heterogeneity, soil seed banks have been extensively studied in the context of community

responses to environmental change. Although the species found in seed banks have been shown to reflect communities of previous land-cover types (Auffret and Cousins 2011, Karlík and Poschlod 2014), many researchers are skeptical of the potential of the seed bank to effectively contribute to the passive restoration of target habitats (Middleton 2003, Wellstein et al. 2007, Rosef 2009). Experimental studies suggest that changes in precipitation and nutrient deposition can have negative effects on both the richness and abundance of seed bank communities (Basto et al. 2015, 2018, Eskelinen et al. 2021). During a period of vast and rapid environmental change, it is therefore highly relevant to understand how seed bank communities are affected by human activity.

Running parallel to the study of seed banks for fundamental and conservation-facing ecology, is the subdiscipline of agroecology focusing on soil seed banks. Agricultural weeds represent an ongoing threat to crop productivity worldwide (Oerke 2006, Storkey et al. 2021), and these weeds generally emerge from soil seed banks. Therefore, the relationship between weed seed banks and broad environmental variables, as well as specific management actions have been extensively studied, both in observational (Roberts and Chancellor 1986, Schwartz et al. 2015) and experimental settings (Davis et al. 2005, Rotchés-Ribalta et al. 2017).

The large number of individual scientific studies related to soil seed banks means that there is now a considerable resource of information that can be used in reviews and syntheses at broader spatial and/or ecological scales. Previous examples of such works investigated species-area relationships of seed banks compared to the established vegetation (Vandvik et al. 2016), the potential for seed banks to contribute to restoration success (Bossuyt and Honnay 2008), and patterns of diversity and community composition across gradients of land cover and climate (Plue et al. 2021, Auffret et al. 2023). Syntheses at the species level have examined phylogenetic patterns of seed bank persistence and seed bank density (Gioria et al. 2020), trade-offs between seed bank persistence and spatial dispersal ability (Chen et al. 2020), and the role of seed bank persistence in facilitating the spread of plant species to new regions (Gioria et al. 2021). Existing work concerning global patterns of soil seed bank richness have either been limited to a single habitat type, do not differentiate patterns according to different habitat types, and/or do not provide information on sampling for the component records (Jabot and Pottier 2017, Yang et al. 2021).

Here, we present a global database of soil seed bank richness, density and abundance, based on a literature search of all available ‘community soil seed bank’ papers. That is, studies that took soil samples and attempted to count and identify all seeds in the sample. In addition to the number of seeds and species counted, we provide information regarding sampling, habitat type and status from the original sources. Additionally, we use global databases to provide summary climate data and biome membership according to the location of each study. In total, we present 3096 records from 1442 studies, based on the collection of over 1 million soil samples from almost 15 900 sites, across 94 countries worldwide. In this document, we describe the method used for data collection and verification, as well as detailing the parameters of the database.

Experimental design and research methods

Literature search

Web of Science search

We searched the Web of Science Core Collection (<https://www.webofscience.com>) with the term *seedbank* OR “seed bank*”* in the topic field, including articles from the years 1945-2019.

This search returned 7536 results, for which bibliographic information was exported and subsequently collated into one file. This file was then filtered using the indexing functions in the R statistical environment (R Core Team 2021), to only include Journal articles (entries of *J* in the exported file column *PT*), resulting in 7157 studies to be examined. The broad nature of the search terms should mean that the majority of seed bank studies in the scientific literature were captured. However, some studies pre-dating the widespread use of the term 'seed bank' will have been missed, although we were able to identify and add a number of these through our prior knowledge and studies referenced in those that were returned by the search. Studies published in journals not indexed in Web of Science will also be absent from the database, for example those published in the 'grey literature' or in some local and regional journals (but note that several studies in languages including French, German and Portuguese were included in the search results and data were extracted. One large regional gap was identified and filled to the best of our ability (see below), while data regarding richness, density and abundance of soil seed banks were not always possible to extract from the published papers (see next section).

Russian database search

During the course of the data collection, it became apparent that there was an especially large geographical data gap in and around the Russian Federation. We therefore added publications from an existing database of seed bank studies from the former USSR containing studies from 1965 to 2004, compiled by collaborator Vladimir Onipchenko. This database was then complemented with a literature search on the Russian language academic database at <http://www.elibrary.ru>, to find more recent data sources. The search terms used were: "ЖИЗНЕСПОСОБНЫЕ СЕМЕНА В ПОЧВЕ" (49 results; approximately: viable seeds in soil), "ПОЧВЕННЫЙ БАНК СЕМЯН" (39 results; soil seed bank), "ЗАПАС СЕМЯН В ПОЧВЕ" (281 results; seed stock in soil). The same search terms were used in Google Scholar (<https://scholar.google.com>), and any other relevant studies identified in reference lists were consulted.

Papers identified from the literature searches were added to a collaborative Google Sheet.

Data entry

Core data extraction

Each paper was assessed by a collaborator (i.e. co-authors on this data descriptor, to avoid confusion with authors of component datasets). For papers where the community seed bank was sampled, data were extracted and added to the database. We extracted information regarding the location of the study, the sampling design (including the size and number of soil samples, the number of sites and the methodology for estimating the seed bank community) and the seed bank richness, abundance and density reported. Although the database does not distinguish between persistent and transient seed banks, we assume that the method of taking soil samples means that constituent studies broadly aimed to record the persistent seed bank. For example, 94% of all records sampled soil at a depth of at least 30 mm (used for detection of persistent seed banks in e.g. Thompson and Grime 1979, Vandvik et al. 2016), while many were considerably deeper (mean depth: 93 mm, median: 100 mm).

We also categorized the study habitat into one of five broad categories, and because many seed bank studies are carried out in relation to the effects of habitat degradation or restoration,

a category for target or desired habitat was added where relevant. While sampling information and seed bank community data are – if present – straightforward to extract from published studies, categorization of habitat was more open to interpretation by both collaborators and study authors. It was our intention to strike a balance between established and meaningful habitat types, and consistency of categorization across studies and collaborators. While arable (used for arable agriculture), forest (presence of a forest canopy) and aquatic were straightforward, others proved more difficult. Wetlands included a range of different environments that were temporarily inundated by water, while grasslands are the most varied category. Although we chose the name ‘grassland’ in the database, the category includes a range of environments where the lack of a forest canopy is determined by anthropogenic management, climate, or a combination of the two, such as pasture, tundra and desert. Shrub-dominated environments were also grouped under grassland because it became clear during data entry that we could not find a consistent boundary between grassland and shrubland, especially given the focus of many seed bank studies on grassland encroachment following grazing abandonment. The addition of climate and biome data based on study locations (below) should help users to extract more specific habitat categories of interest from the database. More information regarding categorization of habitats and habitat degradation, including several examples, can be found in the file *data_entry_instructions.pdf*. See later sections ‘Variable information’ (including Table 1) and ‘Data acquisition’ for full details of all data extracted and the methods for doing so.

The number of records that were added for each article was determined by the detail of information provided in the paper (including supplementary materials and associated published datasets). For example, data from a paper could be split into multiple records (i.e. rows in the database) if seed bank measurements were provided for different (specified) locations, or across multiple habitat types. Alternatively, seed bank data from a paper could be aggregated by collaborators if data were provided for multiple sites of the same habitat, but only general coordinates for the whole study were provided. Or as another example, if coordinates were given for multiple locations, but only overall summaries of the seed bank data were provided, then coordinates were averaged. In cases where very different habitat types were studied, but only overall summary data were provided, we contacted authors by email to ask for more specific information. Authors of the component papers were also contacted to provide clarity regarding study design when this was unclear, or when it was clear that a study had collected relevant data, but it was not reported in the paper. Many authors were extremely helpful and accommodating, but requests were successful in fewer than 50% of cases. Before contacting an author, collaborators used a simple macro within the Google spreadsheet to identify and process additional papers where the author was first or corresponding author. This was to reduce the risk that the same authors would be contacted several times, by different collaborators, during the data entry stage. Full details of the protocol for data extraction and entry are described in ‘Data acquisition’ below, as well as in the file *data_entry_instructions.pdf*

Additional information per record

Following data extraction, the information in the database was complemented with information from three additional sources. First, for a level of consistency regarding record location descriptions, which could vary considerably from study to study, we assigned each record to a

country using the European Union's Eurostat map, 2020 shapefile version (<https://ec.europa.eu/eurostat/web/gisco/geodata/administrative-units/countries>). Where coordinates fell outside of the map's polygons (e.g. coastal areas), records were assigned to the country whose edge was closest to the record's coordinates. The database table was then visually checked to make sure that the Location (as provided in the paper) and Country fields were in agreement. French Guiana, which was categorized by Eurostat as being part of France, was renamed French Guiana.

Climatic data, namely Mean Annual Temperature, Annual Temperature Range and Total Annual Precipitation were also added. We used the CHELSA time series 1979-2019 (Karger et al. 2017, 2018) for this, assigning the climate in the ten years leading up to and including the year of study publication (which we assume to correlate strongly with year of data collection). Studies published up to and including 1987 were assigned years 1979-1987. Because precipitation data did not cover 2019, records from that year were assigned the mean total annual precipitation 2009-2018. Where coordinates fell outside of the data set (either coastal, or on small oceanic islands), the record was assigned climate data from the pixel that had the closest centroid to the available coordinates.

Finally, each record was assigned to a biome or ecoregion, using the WWF global ecoregion map (Olson et al. 2001). This is because broad habitat types, and patterns of biodiversity within them, can differ markedly across the world's biomes (Kier et al. 2005, Newbold et al. 2020). As above, each record was assigned to the biome in which it was located, otherwise the closest geographically. In addition to the original WWF biome definitions, we also used two different levels of aggregated definitions, in order to reduce the imbalance of the number of records within each category (Table 2).

All data entry was carried out by the authors of this data descriptor.

CLASS III. DATA SET STATUS AND ACCESSIBILITY

A. Status

The database was last updated on 27 March 2024. Metadata (this document) was last modified on 2 August 2024. There are currently no plans to update the database to include more recent published data.

B. Accessibility

Data are archived in the Supplementary Information of this data descriptor, as well as on the Swedish National Data Service (Auffret et al., 2024, <https://doi.org/10.5878/bvs7-gk47>). Contact Alistair Auffret (alistair.auffret@slu.se) with any questions. Data are free to be used as desired, subject to citation of this descriptor, in accordance with the CC-BY license. Data were collected from published sources. Some complementary information that was not found in the published papers was added following requests to authors of the original studies. In all such cases, authors agreed to this information being published in an open-access database.

CLASS IV. DATA STRUCTURAL DESCRIPTORS

A. Data set file

Data are provided in a single file gsb_db.csv. The data file contains 3096 rows (excluding header) and 41 columns. Information on the fields is given in Table 1, below.

B. Variable information

Here follow three tables. The first broadly describes the variables (fields, columns) of the database (Table 1). The second and third tables describe in more detail the biome (Table 2) and habitat (Table 3) variables, that require slightly more explanation than is possible within the main table.

Table 1. Description of the database fields. Asterisks highlight information added to the database following main data collection, i.e. not part of the initial database table.	
BASIC STUDY INFORMATION	
RowID*	A unique row identifier, consisting of a five-character alphanumeric code of the format CCNNN (e.g. AA001). The first two characters indicate the initials of the collaborator who processed the record, while the final three numbers are the order in which that person's entries were entered to the database.
StudyID*	A four-character alphanumeric code of the format CNNN (e.g. A001), unique for each study in the database. The first character is the first letter of the first author's surname, and the final three numbers are the order in which papers with that letter were entered into the database.
Authors	
Year	
Title	
Journal	
Doi	
URL	Clickable link for quick access to paper (where available)
LOCATION AND HABITAT	
Lat_deg	Coordinates for the record in decimal degrees. Taken from study, or approximated using Google maps according to site description in the database. Occasionally averaged from multiple coordinates. Coordinates given in other coordinate systems in the paper were converted to decimal degrees.
Lon_deg	
Location	Location of study, usually copied directly from the paper text.

Country*	The country in which the coordinates were located, according to the European Union's Eurostat GIS shapefile 2020.
Temp_mean*	The mean annual temperature (°C) of the coordinate location in the ten years up to and including year of publication of the article, according to the CHELSA time series 1979-2019 (Karger et al. 2017a, 2017b). Studies published up to and including 1987 were assigned years 1979-1987.
Temp_range*	The mean annual temperature range (°C) of the coordinate location in the ten years up to and including year of publication of the article according to the CHELSA time series. Calculated as the maximum temperature from each year's on-average warmest month, minus the minimum temperature from each year's on-average coolest month. Studies published up to and including 1987 were assigned years 1979-1987.
Prec_tot*	The mean total annual precipitation (mm) of the coordinate location in the ten years up to and including year of publication of the article, according to the CHELSA time series. Studies published up to and including 1987 were assigned years 1979-1987, while those published in 2019 were assigned 2007-2018 because precipitation data were not available for 2019.
Biome *	The category of biome in which the coordinates were located, according to Olsson et al. (2001).
Biome_broad*	Membership in a broader definition of biomes, due to poor data coverage in the original biome categories (see Table 2).
Biome_zone*	An even broader definition of biomes (see Table 2).
Habitat_current	Broad habitat type studied according to management at time of the study, following categories: Arable: Land used to grow crops. In very few cases also includes other heavily-impacted anthropogenic habitats such as mining pits, that do not fit within any other category. Grassland: Natural and anthropogenic habitat with low vegetation. Includes pasture, meadow, savanna, but also desert, along with shrub-dominated habitat like dehesa, fynbos and karoo. Forest: Habitat dominated by trees. Wetland: Habitats dominated by wet, but not continually-submerged conditions, such as swamps, bogs and saltmarshes. Usually, but not always low vegetation. Aquatic: Continually-submerged habitat.
Habitat_target	The target habitat category of the habitat that was studied, as determined from the study text in terms of how the habitat is managed. The field is left blank (NA) if the studied habitat is in its natural or desired state. See Table 3 for all combinations of <i>Habitat_current</i> and <i>Habitat_target</i> within the database together with examples.
Habitat_broad*	Broad habitat category. The value in <i>Habitat_target</i> , and if blank, the value of <i>Habitat_current</i>

Habitat_degraded*	Binary, where 1=degraded (entry for <i>Habitat_broad</i> was from <i>Habitat_target</i>), or 0=not degraded, <i>Habitat_current</i> where <i>Habitat_target</i> was blank.
SAMPLING INFORMATION	
Sample_diameter_mm	Diameter of the soil core (mm) with which seed bank samples were taken.
Sample_area_mm2	The area of each soil sample (mm ²), either added directly from the paper (such as when a soil core was not used), or calculated later from the diameter.
Sample_depth_mm	The depth (mm) of each soil sample.
Sample_volume_mm3	The volume (mm ³) of each soil sample, either added directly from the paper (when no area and/or depth were specified), or calculated later from area and depth.
Sample_weight_g	The weight (g) of each soil sample, when no other information was specified.
Number_sites	The number of sites from which samples were taken. This is to provide a gauge of the potential variability within the dataset. Can be somewhat variable across studies, due to the way a sampling design was described, and how this was interpreted by a collaborator.
Samples_per_site	The number of samples (e.g. soil cores of the size specified above) taken per site.
Total_number_samples	The total number of samples taken across all sites, either added directly from the paper (e.g. when different numbers were taken in different sites), or calculated later from the above two entries.
Experiment	Binary, where 1 indicates that the study involved an experimental set up (e.g. block design with different management treatments), and 0 indicates that it did not.
Method	The method by which the seed bank was assessed. Emergence: Emergence of seedlings from seeds within a greenhouse or common garden. Extraction: Separation and counting of individual seeds. Field: Emergence <i>in situ</i> in the field. Only included if it was clear that only seeds emerging from the seed bank were counted. Emergence & Extraction, Emergence & Field: Combinations of the above were employed. Unknown: It was not possible to discern from the study.
Method_volume_mm3	Sometimes, not all soil samples (or not all of each soil sample) were assessed. In these cases, the fraction, volume (mm ³) or weight (g) of the total sample for the entire row was added here.
Method_volume_fraction	
Method_weight_g	
SEED BANK DATA	

Total_seeds	The total number of seeds across all samples. Either reported in the paper or calculated later using sampling information and reported seed density, where possible.
Total_species	The total number of species identified.
Seed_density_m2	The seed density per unit area (seeds m ⁻²) across all samples. Either reported in the paper or calculated later using sampling and reported total seeds, where possible.
Seed_density_litre	The seed density per volume (seeds l ⁻¹), if reported in the paper.
Pos_species	The number of positive, or desirable species across all samples, if reported. Defined by the study authors. Examples include native species, red-listed species and habitat specialists.
Neg_species	The number of negative, or undesirable species across all samples, if reported. Examples include non-native or invasive species, noxious weeds.

Table 2. The different levels of biome in which study locations were grouped. Note that values do not always sum across the rows of the table. This is because groupings were based on a combination of nomenclature and geography. That is, categories were first merged if their names contained broad biome names (e.g. Tropical, Temperate), or if they were visually clearly within the same region. Where this was not clear, and biomes were globally spread (e.g. Mangroves, Montane Grasslands), locations were assigned to the closest alternative biome geographically. Here, rows are aligned to indicate the most common broader categories that were merged into.

Biome	Biome_broad	Biome_zone
Boreal Forests/Taiga (n=100)	Boreal Forests/Taiga (n=100)	Boreal (n=100)
Montane Grasslands and Shrublands (n=69)	Montane Grasslands and Shrublands (n=69)	Temperate (n=1946)
Temperate Conifer Forests (n=154)	Temperate Conifer Forests (n=154)	
Temperate Broadleaf and Mixed Forests (n=1445)	Temperate Broadleaf and Mixed Forests (n=1445)	
Temperate Grasslands, Savannas and Shrublands (n=280)	Temperate Grasslands, Savannas and Shrublands (n=280)	
Mangroves (n=15)		

Deserts and Xeric Shrublands (n=184)	Deserts and Xeric Shrublands (n=192)	Mediterranean and Desert (n=485)
Mediterranean Forests, Woodlands and Scrub (n=279)	Mediterranean Forests, Woodlands and Scrub (n=279)	
Tropical and Subtropical Dry Broadleaf Forests (n=38)	Tropical and Subtropical Forests (n=378)	Tropical (n=519)
Tropical and Subtropical Moist Broadleaf Forests (n=322)		
Tropical and Subtropical Coniferous Forests (n=11)		
Flooded Grasslands and Savannas (n=34)	Tropical and Subtropical Grasslands, Savannas and Shrublands (n=153)	
Tropical and Subtropical Grasslands, Savannas and Shrublands (n=119)		
Tundra (n=46)	Tundra (n=46)	Tundra (n=46)

Table 3. Current and Target Habitat combinations within the database with examples.		
Habitat_current	Habitat_target	Brief description
Aquatic		Natural rivers, lakes, ponds (n=52)
Aquatic	Aquatic	Degraded rivers, lakes, ponds (n=23)
Aquatic	Wetland	Aquatic habitat undergoing conversion to wetland (n=1)
Arable		Arable fields, orchards, vineyards (n=308)
Forest		Mature forest communities, usually primary forest (n=548)
Forest	Forest	Degraded forest. Includes a range of successional stages that are 'managed' as forest, as well as forest plantations. (n=327)
Forest	Grassland	Secondary forest or plantation where managed grassland is target community (n=48)

Forest	Wetland	Secondary forest or plantation where wetland is ideal community (n=1)
Grassland		Managed or natural grassland (including shrublands like dehesa, fynbos (n=826)
Grassland	Forest	Managed grassland where forest is ideal community (usually tropical; n=19)
Grassland	Grassland	Degraded grassland, can also include early stages abandonment (n=448)
Grassland	Wetland	Degraded (i.e. drained) wetlands (n=2)
Wetland		Managed or natural wetland, including bogs, swamps, fens (n=371)
Wetland	Wetland	Degraded wetland (n=122)

CLASS V. SUPPLEMENTAL DESCRIPTORS

A. Data acquisition

Collaborative workflow

Data were entered using Google Sheets (<https://docs.google.com/spreadsheets/>). In an initial step, AGA and JP examined a small number (~10) of relevant papers, and following discussions involving AGA, JP, EL and NSH on the collaboration platform Slack (<https://slack.com>), we decided on the information that should be extracted from each study and entered into the spreadsheet, where possible. AGA then created the spreadsheet, importing general bibliographic information from the Web of Science search (Authors, Year, Title, Journal, DOI; see above). A clickable URL was created for each study, using the doi number where available (e.g. <http://doi.org/10.1016/j.agee.2019.106622>), otherwise creating a Google Scholar search (e.g.

<https://scholar.google.com/scholar?q=Effect+of+light+on+macrophyte+sprouting+and+assessment+of+viable+seedbank+to+predict+community+composition>), from which the full text could ideally be found.

Further columns were added, in which collaborators would add available information from the studies (Table 1). A document was created (by AGA and EL; Appendix S1) to provide clear guidance for collaborators in conducting data extraction. Briefly, collaborators would first read the title to be able to rapidly disregard papers that were clearly not suitable, for example studies that only studied the seed bank of one particular species (i.e. richness and density were not investigated), or those that were concerned with man-made collections of wild or crop seeds, such as the Svalbard Global Seed Vault. Collaborators would then click the link provided in

order to read the paper's abstract, from which they could more often than not discern if the paper was likely to contain data regarding the community soil seed bank. Data were then entered into the database, with any uncertainties shared and discussed as a group within the project's Slack channel. If necessary, the instructions document was updated to provide clarity going forward.

B. Quality assurance and quality control procedures

During data entry

During data entry, simple macros within the google spreadsheet were employed, so that simple mistakes (by either collaborators or study authors) could be automatically identified and rapidly investigated and eventually corrected. As well as invalid entries for categorical fields such as habitat categories, impossible coordinates were identified as those where degrees of latitude were larger than 90, degrees of longitude were larger than 180, minutes or seconds were larger than 60.

Following data entry

Following data entry, the database was thoroughly checked and verified by AGA. In all cases, checks for certain data values were made before studies were revisited to verify the entered values or make corrective or consistency-associated adjustments. First, in the cases where no coordinates were given in the study, the study was revisited to use the description of the study area to find approximate coordinates using Google Maps. At the same time, the complete data entry for that study was double-checked, allowing for more than 5% of data rows from the Web of Science search to be verified, offering a 'random' selection of data and cross-section of all collaborators' data entry. Data were then imported into the R environment for further checking.

Location checks

Coordinates were re-checked for impossible values, as well as incomplete values (i.e. only latitude or longitude coordinates), hemisphere values that were missing or incorrect (e.g. east or west in the hemisphere field for latitude), and inconsistencies such as decimal degrees and hemisphere being specified, which could be an indication of author error. We also identified coordinates in the database that were not on terrestrial areas according to the worldclim dataset (Fick and Hijmans 2017; at an earlier stage of the project, before we used CHELSA for the climate data). Coordinates that were clearly incorrect (usually wrong hemisphere) were manually corrected. Records in coastal areas, where the resolution of the coordinates meant that coordinates were placed in the sea, were given new coordinates to the nearest inland location with the help of Google maps. Records that were on land, but not present in worldclim, were left for future processing. All coordinates were converted to decimal degrees using the R function `sp::char2dms` (Pebesma and Bivand 2005).

Habitat checks

To ensure consistency within and across habitat classifications, studies with combinations of entries in the `Habitat_current` and `Habitat_target` that were judged to have more fluid boundaries were checked. First, all entries with `Arable` as `Habitat_current` and any entry in `Habitat_target`, as well as entries with `Arable` in `Habitat_target` were checked. In the final database, `Arable` sites never have a target habitat because they are always managed as `Arable` fields, and the transformation is too large for the site to be viewed as a degraded habitat with the potential for restoration from the seed bank. Neither is `Arable` ever a target habitat. Next, all rows with `Habitat_current` as `Grassland` or `Wetland`, and `Habitat_target` as `Forests` were scrutinised. This

was to ensure that these combinations were only retained when the open habitat was naturally or anthropogenically stable. Otherwise, the study region and descriptive language used by the author were used to determine whether the classification should be Habitat_current: Forest, Habitat_target: Forest (severe forest degradation or abandonment of slash and burn agriculture that means that the habitat is open, but not managed or stable grassland), or Habitat_current: Grassland, Habitat_target: Grassland (deterioration of traditional, long term native and species rich grasslands). Combinations of habitat categories that had very few records, which were those with Wetland as a target habitat and another category as the current habitat, were also all checked.

Sampling, site and plot checks

First, a quick sanity check was conducted, looking at the unique values for sample diameter, sample area and sample depth to identify any implausibly large or small values. Then, for records where collaborators had added both sample diameter and sample area, or area (or diameter), depth and volume, values were mathematically checked to make sure they matched up. When there was a clear deviation between extracted and calculated values, the paper was revisited to check for errors. Following this exercise, the area was (re-)calculated for all data records from sample diameter, and volume was calculated for all records from area and depth. Regarding plots and sites, we first checked that Total_number_samples was the product of Number_sites and Plots_per_site in the cases where all three fields had been added by the collaborator. When Number_sites was blank, or Number_sites populated but the other fields were blank, studies were revisited and this information was added where possible. Where plots per site and number of sites were populated, total number of samples was then calculated if not already filled in.

Method checks

The Method field was checked to make sure that only accepted categories were entered. Records where Method was 'unknown' were all re-checked to see if this information could be found in the study. Checks were then made for impossible values, such as Method_fraction of <1 , and that when filled, Method_volume was never larger than the calculated volume of the total number of samples for the record.

Result checks

Here, 'impossible' values were first checked, such as Total_species being larger than Total_seeds, or positive or negative species being larger than total species. Seed and species number were checked for decimal points (for example if seed density was entered in the wrong field). Then, all seed density was calculated for all records for which Total_seeds and Seed density were both inputted. Those with more than 5% deviation between the input and calculated values were examined, and values changed where necessary.

Gap filling and back-calculation

Further to the calculation of fields already mentioned, the following was then applied. First, where the number of sites was not clear from the study, we specified one site. We then recalculated seed density from sample area, total number of samples and seed number, overwriting those records with discrepancies that could not be solved from re-visiting the source article. Where seed density was specified but sample area not given in the article, it was back-calculated. Where depth was not specified, we estimated sample volume by assuming a 10 mm depth, because this was the modal, median and (rounded) mean value. Using the same assumptions, we also back-calculated sampling and results values where liters, rather than areal measurements were given in terms of sampling and seed densities. Where necessary, we

calculated the areal density of species in order to enable back-calculation of sampling and results.

Final outlier checks

Following all the above checks and gap filling, we checked the database for statistical outliers. For each record's total sampled area, seed density and species density (calculated for these checks but not included in the database due to the curved nature of species-area relationships), we identified all records that were more than three standard deviations from the mean value. The appropriate studies were then checked, and any necessary changes were made. The process was repeated until no new records were returned. See Figure 1 for a map of the records for the final database, colored according to habitat type (Habitat_current).

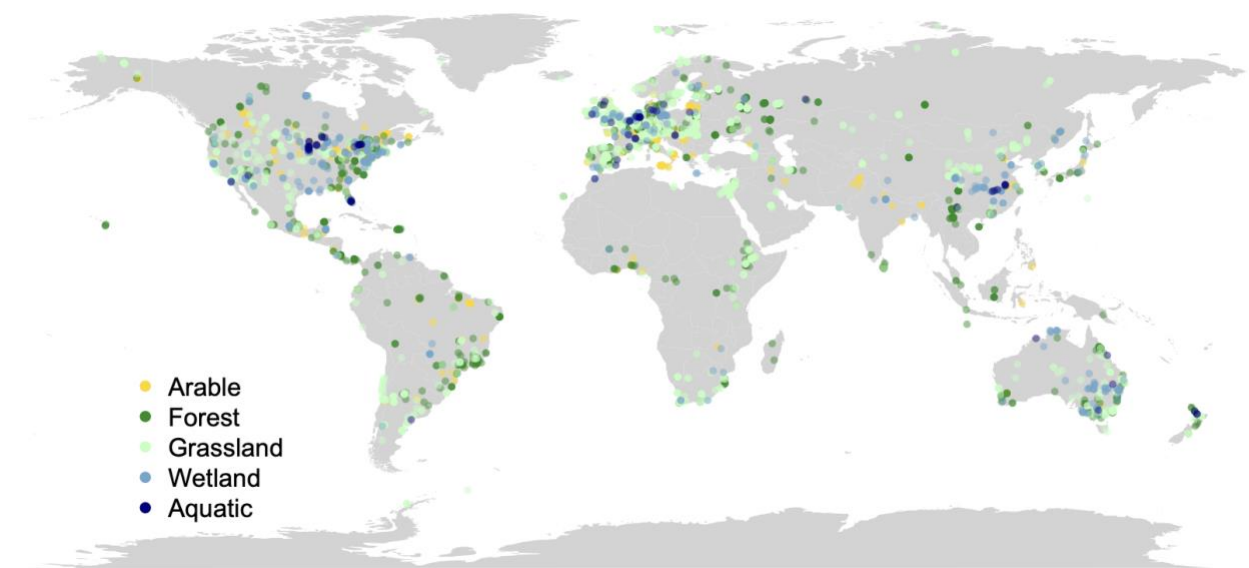


Figure 1. Distribution of records in the global database of soil seed banks according to geography and broad habitat category.

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