

# Seeds of Success Digital Data Collection User Guide



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## 1. Overview

It is essential that detailed records are kept for each collection made as part of Seeds of Success (SOS). The quality of these records is largely dependent upon careful collection of data in the field. The data recorded from each collection have applications that can include informing future seed collections, selection of appropriate seed for restoration, conducting seed research, and monitoring plant populations.

In 2022, the SOS National Coordinating Office piloted the digital data collection infrastructure at the national level. The initial infrastructure was created and tested by partners in the Great Basin and the Southwest. In 2024, digital data collection became a requirement for all crews, with an exception for tribal partners.

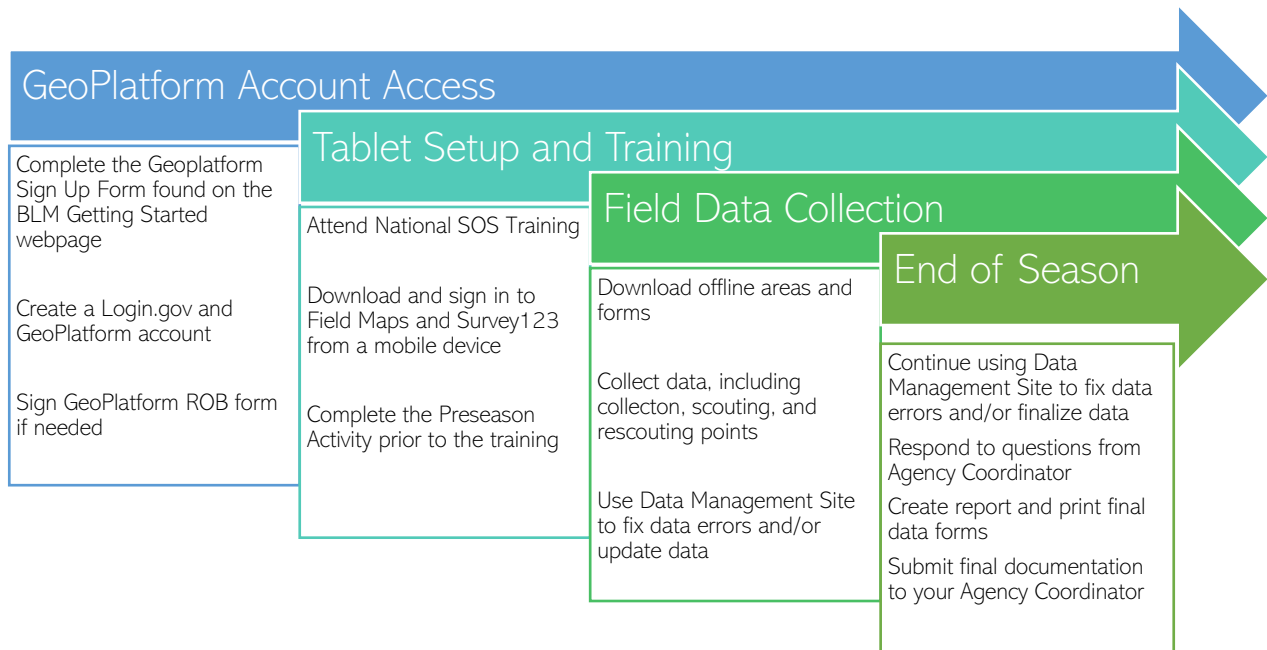
Over the years, SOS has transitioned from paper data forms, which were mailed into the National Office, to paper data forms which were entered by collectors via the SOS web portal. The current method uses tablets and other mobile devices to collect in the field, which eliminates the need for redundant paper data forms and provides real time data for the National Office, Agency Coordinators, collectors, botanists, and other stakeholders. This evolution is facilitated by GeoPlatform, which will serve as the new web portal, and the ArcGIS apps, Survey123 and Field Maps.

This document details the use of GeoPlatform, Survey123, and Field Maps as part of SOS data collection. The information that follows is meant as a supplement, not a replacement, to the annual SOS training. Project leads, mentors, and collectors should ensure they are properly trained before beginning SOS collections.

*Differences in workflow between using paper data forms for collection and using digital data forms for collection.*

Data Collection Method	Pre-collection	In the field	In the office	End of season
Paper data form and SOS web portal	Collectors print off data forms.	Collectors write data onto paper data forms.	Collectors receive a login for the SOS web portal and enter the data for each individual collection. Teams then review entries and correct errors.	Data forms are printed and mailed with seed collections to the cleaning facility. Each data form is scanned and emailed to the SOS National Office. The National Office then confirms that what is on the paper form matches what is in the SOS web portal.
Survey123 form and GeoPlatform	Collectors create a GeoPlatform account and download the appropriate Survey123 forms and Field Maps offline areas to their mobile device.	Collectors enter data into Survey123 via the app on their mobile device and use Field Maps to navigate.	Collectors review their forms and submit them once back in cell service. They can review the data in their GeoPlatform group and edit if necessary in the Data Management Site.	Data forms are exported from GeoPlatform, printed and mailed with seed collections to the cleaning facility. The Agency Coordinator confirms that all necessary data has been submitted.

An overview of the general workflow for digital data collection is below. It is required that you follow each of the steps in this workflow to ensure successful completion of the SOS Technical Protocol.



## 2. GeoPlatform

The GeoSpatial Platform (GeoPlatform, GPLAT) is an online portal which allows for enhanced collaboration and participation between federal agencies and non-federal partners. For the purposes of Seeds of Success, it grants collectors access to relevant ArcGIS online (AGOL) feature services associated with seed collection. Gaining access to GeoPlatform is a necessary step for SOS teams using tablets or other mobile devices to collect data. Crews will need to be onboarded with adequate time to acquire GeoPlatform accounts, complete the preseason activity, attend the SOS national training and regional training if applicable, and prepare for the first data collection trip/hitch.

More information about GeoPlatform and how it facilitates collaboration between federal and non-federal users can be found by reading the BLM GeoPlatform Standard Operating Procedures, which outlines general guidance for internal and external partners:

[https://gis.blm.gov/EGISDownload/Docs/BLM\\_GeoPlatform\\_SOP\\_2021.pdf](https://gis.blm.gov/EGISDownload/Docs/BLM_GeoPlatform_SOP_2021.pdf)

### 2a. Creating a GeoPlatform Account

For the purposes of GeoPlatform, all SOS collectors are either internal or external partners. An internal partner is someone within the BLM, whereas an external partner is any user who does not have a BLM SAML account. For example, a BLM field office botanist would be an internal user, whereas a seasonal contractor is an external user.

All Seeds of Success collectors will need to access GeoPlatform.gov through one of the following accounts: a BLM SAML Account (BLM EGIS) with Editing Capabilities for internal partners, or a GeoPlatform Login.gov Account for external partners.

Internal users (BLM): BLM employees with SAML accounts can use their SAML account with Mobile Capabilities or a GeoPlatform account. If you can successfully access GeoPlatform with your

BLM SAML Account, you can skip to the next section – “2c. Groups”. However, while you can use your existing DOI SAML/BLM Mobile Editor Account, your account must be at the BLM Data Editor level or above for data collection efforts, including access to Survey123 surveys. After being added to the appropriate GeoPlatform group, you will need to login to the Survey123 app to make sure you have access to your region’s survey. Note that you will not be able to see the relevant survey or maps until *after* you have been added to the appropriate group.

If you are a BLM employee responsible for publishing content, group creation, or group maintenance, then you will need to create a GeoPlatform Login.gov account following the instructions below for external users.

External users (seasonal contractors or other external partners) are required to create a GeoPlatform Login.gov account or use an existing GeoPlatform Login.gov account if applicable. Follow the steps below to get set up first your Login.gov account, and then your GeoPlatform account:

1. Create a Login.gov Account. Follow the instructions on page 5 of [the GeoPlatform SOP document](#) beginning at “Create a Login.gov Account” and continuing to the end of page 6.
2. After confirming your email address and creating a password, you will need to add two-factor authentication. Read through the different options listed on page 7 of the GeoPlatform SOP and choose the one that works for you. You can add more authentication methods later by logging into your Login.gov account and adding authentication method from the left pane.
  - a. Preference of authentication methods for BLM employees:
    - i. Government employee ID (e.g., PIV card)
    - ii. Authentication application (e.g., Microsoft Authenticator)
    - iii. Phone (SMS/Voice; charges may occur)
  - b. Preference of authentication methods for External Partners:
    - i. Authentication application (e.g., Microsoft Authenticator)
    - ii. Phone (SMS/Voice; charges may occur)
3. Follow the instructions related to your chosen authentication method. For government employees, instructions continue on page 7. For external partners using an authentication application, follow the directions below, which can also be found on page 11 of the GeoPlatform SOP. Note, these instructions are for Microsoft Authenticator, however other authentication applications should work similarly.
  - a. If needed, sign into Login.gov. You should be on the Your account page. Click Add authentication apps on the left.
  - b. Enter a nickname for this authentication method.
  - c. Scanning the QR code can either be done from within the MS Authenticator app, or you can open the mobile device’s camera app and use that to scan the QR code.
  - d. To scan with MS Authenticator:
    - i. Open MS Authenticator on your mobile device. Tap the “+” in the top right.
    - ii. Tap Work or school account.
    - iii. Tap Scan QR code and scan the code. Scanning the code will populate all the necessary information.
    - iv. Alternatively, you can enter the code shown on the website into the app. Tap or enter code manually, enter the code, tap Finish.
  - e. To scan with the device’s camera:

- i. Open the camera pp. Scan the on-screen QR code with your camera.
  - ii. If you have the Symantec VIP (SVIP) app on your device, it may try to authenticate against it. Do not approve through SVIP. Instead, return to your device home screen and delete this app. Once deleted, repeat the QR scan.
4. Tap the push notification on your device to open the Authenticator app.
5. Enter the code from the authentication app into the website. If the code times out and changes, simply enter the new code.
6. Click Submit.
7. Once you have at least one authentication method set up, you will be redirected to the Login.gov Your account page.
8. Now that you have a Login.gov account created with an authentication method associated with it, you need to create a GeoPlatform Login.gov account. Follow the instructions on page 9 of the GeoPlatform SOP to set up your account.
9. Confirm that you can login to GeoPlatform using your GeoPlatform Login.gov account information.

## 2b. Account Role Modification

For external partners, or internal partners with new GeoPlatform accounts, the next step is to have your GeoPlatform account permissions elevated to “BLM Partner Data Editor”. This role allows data and feature editing within GeoPlatform by authenticated external partners, which includes submitting Survey123 forms. First, complete the DOI Information Security Rules of Behavior: For External Partners (ROB), which can be found at the end of this document and in the Geoplatfrom Sign Up Form ([2024 Geoplatfrom Sign Up Form](#)). External partners need to sign the PDF and save it in the following format before returning it to the SOS National Office:

GPLAT\_ROB\_<STATE>\_<COMPANY>\_<username>

Examples: GPLAT\_ROB\_ID\_CBG\_jdoe

GPLAT\_ROB\_ID\_BLM\_sehill

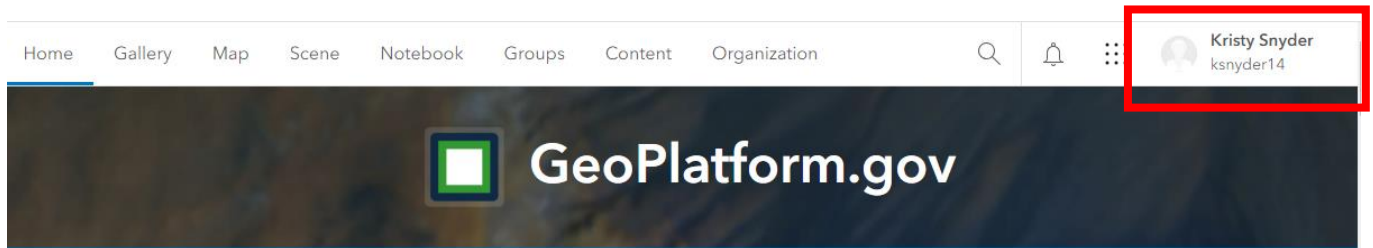
GPLAT\_ROB\_VA\_FWS\_kthomas7

GPLAT\_ROB\_CO\_NPS\_kvinzant

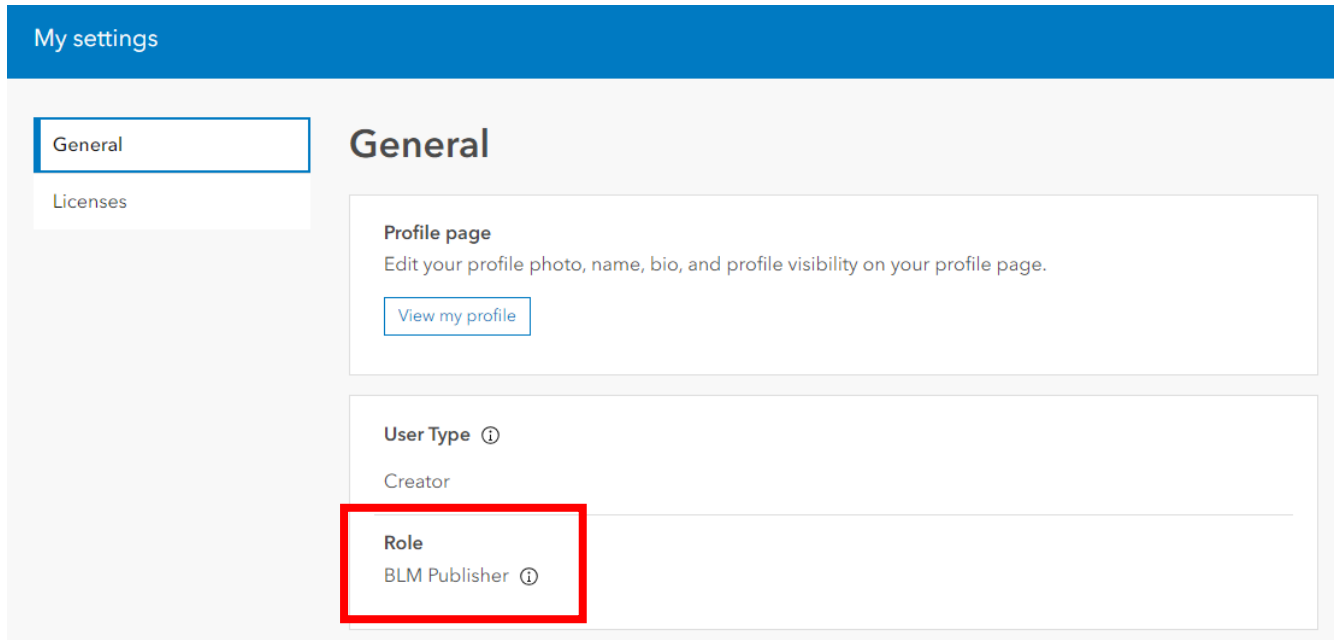
If you have completed the GeoPlatform Sign Up Form and are ready to complete the Role Modification, email a copy of the ROB to the SOS National Office along with the name and username of the collector. The National Office will then submit a Remedy Ticket along with the signed ROB to the BLM Help Desk. Elevating permissions could happen as quickly as the same day and could take up to a week.

If you would like to check your role:

1. Login to GeoPlatform (<https://geoplatfrom.maps.arcgis.com/home/index.html>)
2. In the upper right corner, select your name



### 3. Select My Settings

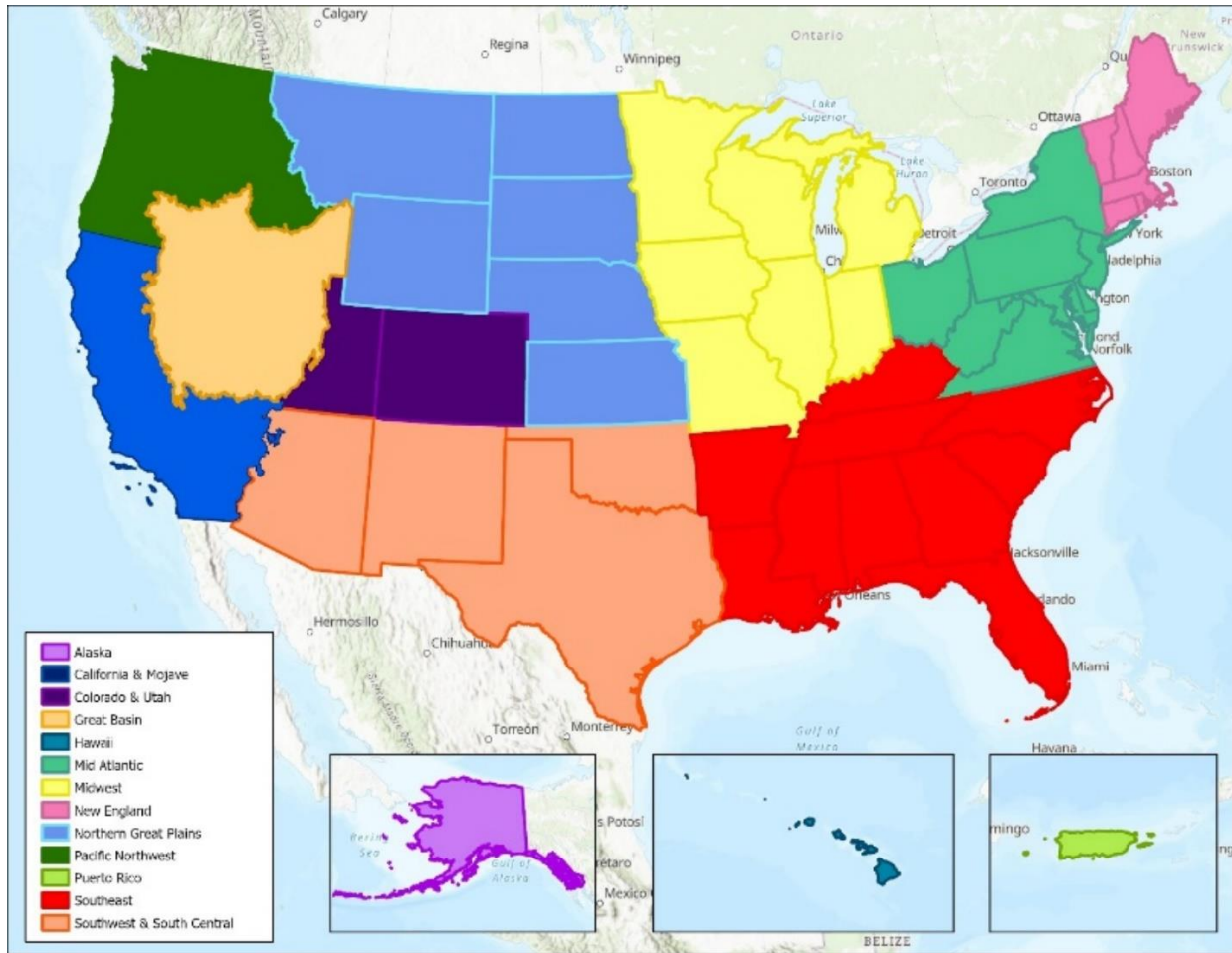


4. Your role is the under the general tab. The default Role when you create an account is "Viewer". Viewer roles cannot make edits, including submitting Survey123 forms. When your account is correctly modified, you will have the role of "BLM Partner Data Editor".

## 2c. Groups

When your GeoPlatform account set up and role modification is complete, each user will be assigned to a group within GeoPlatform based on their SOS collector code and region. Mentors or Project Leads who are coordinating multiple SOS collecting teams should contact the SOS National Curator and GIS Analyst to be put in the correct groups. Collectors will only be able to see SOS data relevant to their GeoPlatform group. All SOS GeoPlatform Groups will follow the naming convention: GPLAT\_[Region]\_SOS\_[Year] (ex. GPLAT Great Basin SOS 2024). Collectors will be placed into groups that correspond to the geographic region they will be working in. The region name may or may not match the name of the specific area collectors are working in, the contract title, or the agreement title (i.e. you might be working on a project in the Rocky Mountains, but you would be placed in the Colorado and Utah group).





Map of the 13 SOS GPLAT Regions for 2024.

## 2d. Available Layers and Forms

Within each GeoPlatform group, collectors will have access to the following layers and feature services provided by the National SOS Coordinating Office:

Layer Name	Contains the layers listed below
[Region] Seed Collection [Year]	Shows the current year's collection points. Will be blank at the start of the season.
[Region] Scouting [Year]	Located in the [Region] Scouting Group, the scouting layer includes all the scouting points for the region. Will be blank at the start of the season.
[Region] Rescuing Collection [Year]	Located in the [Region] Scouting Group, the scouting layer includes all the rescuing points for the region. Will be blank at the start of the season.
[Region] Historic SOS Collections	Contains points of previous SOS collections within the region. Point colors and popups indicate whether a population is eligible for recollection.

[Region] Historic Scouting	Contains points of previous scouts and rescouts in the region. Popups allow for current years scouting and collection.
Points of Interest	Points created by crews to record camp sites, water sources, road conditions, and any other points of interest.
BLM District & Field Office boundaries	Layer with BLM field office and district office boundaries.
Land Manager	Layer with federal land managing agency
Ecoregions – Level III and IV	Shows level 3 and 4 Omernik ecoregions
Provisional Seed Transfer Zones	Layer with provisional seed transfer zones; not required for SOS data form but may be used to target collections.
Empirical Seed Transfer Zones	Layer with current empirical seed transfer zones; not required for SOS data form but may be used to target collections.
[Region] Boundaries	The outline of the region you are working in
US Counties	Layer with county names within the region

Form names and information:

Form Name	Purpose
[Region] Seed Collection [Year]	Accessed in the field via Survey123 or through a hyperlink in FieldMaps; this is the national standard SOS form where teams enter data for each SOS seed collection.
[Region] Scouting [Year]	Accessed in the field via Survey123 or through a hyperlink in FieldMaps; this form tracks all populations scouted by collectors.
[Region] Rescuing Collection [Year]	Accessed in the field through a hyperlink in FieldMaps that takes you to Survey123; this form tracks all populations rescued by collectors. Rescued sites are populations that have already been scouted in the current season
[Region] Points of Interest	Accessed in the field via Survey123; this is a regional dataset for other points of interest, including but not limited to camping sites, locations or water, road hazards, etc.
Non-SOS Seed Collection Form	Accessed in the field via Survey123; this is a seed collection form for NON-SOS collections that have been approved by the Agency Coordinating Office

Collectors should spend some time familiarizing themselves with the “[Region] SOS Field Map [Year]” web map for their collecting group. This map contains all the layers listed above and is instrumental in planning scouting and collecting trips. If you have specific questions about using this map, contact your Agency Coordinator.

Additional or custom feature layers or forms may be added to the group as requested by local and regional SOS coordinators and Botanists. Requested additional layers must be sent in a shapefile or geodatabase or linked to a shapefile or geodatabase to the GIS Analyst by December 15<sup>th</sup>.

At the end of the season, collectors will use the web map to review their data for the season and edit it as needed. For more information about editing data in GeoPlatform and submitting end of season reporting see Section 5. End of Season Procedure.

### **3. Using Field Maps for SOS**

The following section provides an overview of the ESRI app FieldMaps. With FieldMaps, collectors can navigate and identify possible areas for collection.

#### **3a. Field Maps – At the office**

Before heading to the field, collectors will need to:

- Login to Field Maps, Survey123, and any other apps you may use out in the field.
- Fully charge a tablet or phone and bring a backup method of charging.
- Download the appropriate maps and surveys.
- Print out a copy of the paper data form just in case.
- Follow all other field safety protocols outlined by the BLM Field Office or your organization.

#### **3b. Logging into Field Maps with GeoPlatform Accounts**

Follow the instructions on page 34 of the [GeoPlatform SOP](#) for instructions on logging into the Field Maps app on your tablet or phone using your Login.gov account.

#### **3c. Downloading Maps and Offline Areas**

Before heading into the field, make sure you have the relevant maps downloaded so that they will be available to you offline. When you open Field Maps, you should see at least one map available to you, maybe more depending on whether you have used the app previously and if you are in multiple groups. Find the map that corresponds with your SOS region and year. If there are no offline areas, or you would like to create new offline areas, click on the map, then click on the three dots in the top right corner of the screen. Tap Add offline area. Then, pan and zoom the map so the area you want to download is visible. Adjust the level of detail to TOWN, then click Download Area. You can download a smaller area if town is too large. Open your map and make sure you can view all the available layers. Maps may take a while to download, so make sure you budget enough time before leaving cell service. More information about downloading maps is available here:

<https://doc.arcgis.com/en/field-maps/ios/help/download-maps.htm>

### **4. Using Survey123 for SOS**

The following section will provide an overview of the ESRI app Survey123. With Survey123, collectors can record information related to scouted and collected plant populations.

#### **4a. Survey123 – In the Office**

Make sure you do the following before heading to the field:

- Login to Field Maps, Survey123, and any other apps you may use out in the field.
- Fully charge your tablet or phone and bring a backup method of charging.
- Download the maps and surveys you will be using; print out a copy of the paper data form just in case.
- Follow all other safety protocols outlined by the BLM Field Office or your organization.

#### **4b. Logging into Survey123 with GeoPlatform Accounts**

Follow the instructions on page 37 of the [GeoPlatform SOP](#) for instructions on logging into the Survey123 app on your tablet or phone. Make sure you can login before heading to the field.

#### **4c. Downloading Surveys**

After logging into Survey123 on your mobile device, click on Download Surveys at the bottom of the screen. You should see the following four forms and should download each of them:

- [SOS Seed Collection Form](#) – use this form when you know the population will make a good SOS collection. Information from this form will be sent to the National Coordinating Office and you will be able to edit information from this form in the office using GeoPlatform.
- [SOS Scouting Form](#) – use this form to keep track of scouted populations you have visited. This form tracks information related to phenology and can be linked to the SOS Seed Collection Form when a previously scouted population is collected.
- [SOS Rescuing Form](#) – use this form to keep track of scouted populations you have visited. This form tracks information related to phenology and can be linked to the SOS Data Form when a previously scouted population is collected.
- [SOS Points of Interest Form\\*](#) – use this form to collect points of interest while in the field. Points of interest include road conditions, camping locations, gas stations, etc.
- [Non-SOS Collection Form\\*](#) – use this form when you have been approved to collect seed for additional projects that are not SOS.

\*The SOS Points of Interest Form and the Non-SOS Collection Form are not required. The Points of Interest Form is highly recommended. The Non-SOS Collection Form is only recommended if you absolutely know you are collecting seeds outside the scope of SOS and already have prior approval.

### **5. In the Field**

Upon arriving to the collection site and locating your target species, open Field Maps and pull up your offline area of the current year's field map. Individually turn on and off the various layers to ensure that you are in the correct location. For example, if you are targeting a specific ecoregion, toggle on the Level III Ecoregions layer to check that you are within the boundaries. When you get back to the office, you may want to check to see if any revegetation treatments have been done. SOS does not accept seeded populations or cultivars, only wild populations. Open each of the following forms in the Survey123 app to record the relevant data:

- [SOS Scouting Form](#) - Once you have found a suitable plant population of your target species that contains more than 50 individual plants, record as much information as possible in the

Scouting Form. To determine what type of SOS collection (operational, standard, or recollection).

- [SOS Seed Collection Form](#) – When you are ready to collect, open the SOS Seed Collection Form. While standing in the middle of the target population, select the red hyperlink in FieldMaps or open Survey123 depending on your workflow. Please fill out the form as completely as you can while still in the field. you will need to perform several cut tests and enter the information into page 2 of the collection form. If you have created a scouting point for the collection, make sure to go back and update the final section on the SOS Scouting Form - "Collecting Information". This is where you will identify which SOS Collection Reference Number has been assigned to the scouted (now collected) population.

Since you will most likely not have cell service in the field, after completing a form hit the "X" in the top left corner then select "Save in Draft" (5a). If the form is complete, select the check mark on the final page, then select "Save in Outbox" (5b). Forms that are saved in the Outbox will all send at the same time. Ensure all forms are saved in your Drafts or Outbox before leaving the collecting site. You will be able to send and sync all data when you return to service/connectivity. Note – if you have downloaded offline map areas, you will need to sync the map in Field Maps for the new points from the Data or Scouting Forms to appear on the map. To do this, open Field Maps and click the three dots next to the offline map and click "sync".

### **5a. Sending Forms from Drafts**

When you are back in connectivity/service, open Survey123, navigate to the form you wish to view, and click on the "Drafts". Run your location calculations on page 5 of the Scouting Form and page 7 of the Collection Form. Review all the data in the form and update or edit any fields. Click the checkmark in the bottom of the screen to send your Survey. It is a good habit to sync/send your data at the end of every visit to the field.

### **5b. Sending Forms from Outbox**

When you are back in connectivity/service, open Survey123, navigate to the form you wish to view, and click on the "Outbox". This is a good time to review all the data in the form and to update or edit any fields. Click the "Send" button at the bottom of the screen. It is a good habit to sync/send your data at the end of every visit to the field.

## **6. End of Season Procedure**

Once you are done in the field, you will need to review, and possibly edit your data. Before starting to edit data in the Data Management Site, Survey123 Online, or GeoPlatform, first review all your Survey123 forms on your device. The dropdown lists, calculations, and other features available via the application are more user friendly on a mobile device than on a desktop, and it is therefore recommended that the first pass at data editing always be done on your mobile device. To review your forms, open the Survey123 app and, depending on if you have already submitted a form or not, it will either be in your Sent or Outbox in the Survey123 app. Select the record you want to review and select "edit and resend".

It is imperative that you review all data points for completeness and accuracy!

- Review the “SOS Data QC Guide” for a more detailed QC protocol (found in your GeoPlatform help documents)
- All required fields should be filled in.
- All scouting points that resulted in a collection should be updated to reflect the associated SOS Seed Collection Reference Number.

## 6a. Editing Data

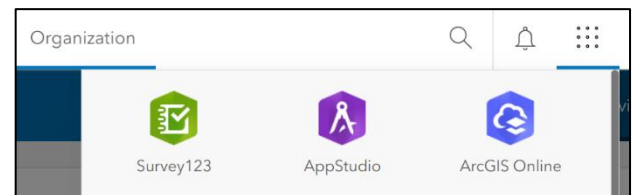
After sending and syncing all your data from the field, you will be able to view your points from the SOS Seed Collection Form, Scouting Form, and Rescuing Form in your GeoPlatform group. Open the “[REGION] SOS Field Map [YEAR]” and ensure the layers associated with your groups’ Collection, Scouting, and Rescuing Forms are toggled on. You can access the map through the Data Management Site or through the web map.

First, verify that all your data points are showing up on the map. Check that all your data has been successfully uploaded. We recommend editing data using the Data Management Site if using a computer and editing forms in Survey123 if you are the creator of the form. For details on how to edit data, view the “Editing Data” help document in your group. Please do not edit anything that does not need to be edited!

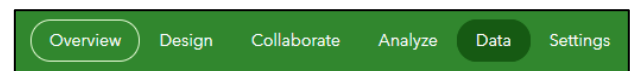
You will not have the ability to delete a submitted record as a collector. To have a record deleted, contact the GIS Analyst, and provide either the Scouting ID or the SOS Collection Reference Number and the reason why the record should be deleted.

## 6b. Creating Reports in GeoPlatform

Part of SOS requires shipping the seeds to the Bend Seed Extractory, Dorena Genetics Resource Center, Alaska Plant Materials Center, or another seed processor for cleaning. The cleaning facilities need a record of what seed they are receiving, so a copy of the corresponding SOS Data Form needs to accompany the seed shipment. You can generate a printable copy of the data in the SOS Data Form in GeoPlatform.



When you are ready to ship your seeds to a cleaning facility – and when you have finalized editing the data – login to your GeoPlatform and click on the grid of dots that is in the upper right corner. From the dropdown, select Survey123. This will open a new window in the Survey123 web application, and you should see all the surveys you have access to. Select the SOS Data Form and then click on “Data” in the bar on the top right. This will take you to a page like the SOS Data Form web map in which the points are viewable on a map and the data are in a table below. Next, click on “Report” in the white bar below the bar with “Data”. This will open a side bar titled “Report”. The first step is to choose whether you would like to generate a data form for only some or all your records. When you are ready to send seeds to a seed cleaning facility, select filter and filter for your collector code and the collection number of the records you would like to print. Under “2. Select a Template” you should only have one option – “SOS Data Form [YEAR]”. If for some reason you do not see this option, contact the GIS Analyst. For printing more than one record, you will next need to select to split your exports under “3. Output settings.” Finally, give your report a name ( $\{\text{ACC\_NUM}\}_{\text{ABBREV\_NAME}}\}$ ) and select “Microsoft Word” as the format



and click “Generate”. Depending on how many reports you are generating, it may take a few minutes, but the file should automatically download to your computer once finished. You should now have a Word Doc version of the SOS Data Form to 1. save in your local files, 2. send to your Agency Coordinator, and 3. send to the cleaning facility in the seed shipment. For a step-by-step guide to creating a report, please view the “End of Season\_Creating a Report” document in your GeoPlatform help documents.

## **6c. Submitting data to SOS**

Per the SOS Technical Protocol there are a few things you must submit to your Agency Coordinator before the end of the season by December 15<sup>th</sup>. Review the end of season checklist on the SOS website, [blm.gov/sos](http://blm.gov/sos), for more details about the following data submission tasks:

- Data entered in GeoPlatform – Throughout the season you should have synced and reviewed your data submitted via Survey123. At the end of the season, check to make sure all your data are correct, and then notify your Agency Coordinator. This includes data for collections, scouting data, and rescouting.
- Data forms – Following the directions in section 6b of this document, you will create word document versions of the SOS Data Form. Send data forms with your seed shipments to the cleaning facility and email them to your Agency Coordinator as attachments by the end of the season.
- Photos – Instructions for submitting photos to your agency coordinator can be found on the “End of Season Checklist” on the SOS website.
- Annual Report – The annual report template is available from the SOS website. You will need to download the word document, fill out, and send to your Agency Coordinator via email. For more information, see section 2e. Annual Reporting and Appendix 5 of the main SOS Technical Protocol.

After you have submitted all data to your Agency Coordinator for the season, you may still be contacted with questions from either your National Curator, Agency Coordinator, Crew Lead, or your Mentor. Please ensure that you are finishing all data entry and documentation one week prior to leaving.

Finally, all collectors will be removed from their GeoPlatform groups at the end of the season. Contractors will be removed from the GeoPlatform group within two weeks. BLM staff who may need to do further analysis or quality control will have access to the groups until the next years group is created.

## **7. Data Usage and Sharing**

Because SOS data contain the GPS coordinates for plant populations on both public and private lands, they are carefully safeguarded. All SOS data is considered sensitive and as such should not be shared with anyone outside of the SOS program, and in most cases outside of your own collecting group. This includes exporting and distributing any data from GeoPlatform or sharing screenshots of any forms, maps, dashboards, or experience builders.

Everyone who has access to SOS data is required to sign a Confidentiality Agreement as part of their onboarding process and are expected to adhere to its rules. Please refer to section 2a. *SOS Data Policy* in the SOS Technical Protocol for more information.

## 8. Frequently Asked Questions

1. Who can have access to the SOS GeoPlatform?
  - Access will only be granted for all active 2024 collectors, team managers, and support staff.
2. I already have a GIS account; can I use that account for SOS?
  - Only GeoPlatform accounts or BLM-EGIS accounts are permitted in the SOS groups.
3. What is the overall process for being onboarded?
  - You will need to create a GeoPlatform account, complete the Digital Data Collection Sign Up form, and email the GIS Analyst your signed Rules and Behavior Form. Once you have editing access, you will complete the preseason training before being added to the regional group.
4. What kind of device do I need?
  - We recommend using a tablet or mobile device with 128 GB or more of storage. The device needs to have WIFI or Cellular capabilities and you do not need to pay for a cellular data plan.
5. What applications do I need to have on my device?
  - Survey123 and FieldMaps
6. How long does it take for each stage of the process?
  - It takes 1-14 days from completion and emailing of the forms to have access to your regional group.
    - i. It takes approximately 1-5 days to elevate user roles after the GIS Analyst has received your Sign Up Form and signed Rules and Behavior (ROB) Form. If portions of the Sign Up form are incomplete or the ROB has not been submitted/signed, the onboarding process will take longer.
    - ii. The preseason activity must be completed before being added to the regional group, so this step could increase the onboarding time. For quicker access, please promptly complete the preseason activity.
    - iii. Every Monday and Friday morning, the GIS Analyst will move folks from the preseason group to their regional group. This may happen on a more regular basis depending on the season.
7. Where can I find my GeoPlatform username?
  - After you login to your account, your username is under your full name in the upper right corner.
8. I forgot my login.gov password, what do I do?
  - Select GeoPlatform as your organization, in the newly opened login.gov page select "Forgot Password"
9. I already have a GeoPlatform account and no longer have access to the email I signed up with. Can I use the same account?
  - You will need to create a new GeoPlatform account. Please email the GIS analyst your old and new account username and email address. They will contact a National Operations Center (NOC) GIS Specialist to merge or delete your old account.



10. How can I get additional layers added to my Regional Map?
  - Please send a shapefile or geodatabase to the GIS Analyst by December 15<sup>th</sup> for the following years season.
11. How do I edit forms?
  - Check the "Help Document" category in your Regional SOS Group for the "Guide to Editing Data"
12. How do I delete forms or points?
  - Please email the GIS Analyst the Seed Collection Reference Number or Scouting ID, and the title of the form (including the region).

## **9. Digital Data Collection Glossary**

Scouting ID – The unique code associated with the scouted population and comprised of the Collector Code, the NRCS Plants Code, and a unique identifier made up of a combination of letters and numbers.

Future Potential – Does this population have the potential to be collected in the future? Reasons for saying "no" include the population being less than 50 plants.

Potential Collection Type – Indicate which type of SOS collection you believe the population would best yield. For example, if it is a large prairie with a continuous stand of the target species which produces multiple seeds per fruit, you might expect to collect a lot of seed and meet the 80,000 PLS threshold for an Operational Collection.

Scouting Notes – Space to provide a brief description of the site and/or population and any useful related information.

Date Dormant – The first date on which you found this species dormant.

Date Emergent – The first date on which you found the species emerging.

Date Bud – The first date on which you found the species in bud.

Date Flower – The first date on which you found the species in flower.

Date Mature/In Seed – The first date on which you found the species to have seeds.

Date Post-Mature/Post-Seed – The first date on which you found the species to be post-mature; either seeds have shattered or been dispersed, or remaining seeds are no longer viable.

## 10. Data Dictionary

### Seed Collection Form

Page 1

Survey 123 Field	What information is collected?	Data Type	Options
Recollection? *	Is this a Recollection	Text	Yes or no
Original Seed Collection Reference Number*	Historic official SOS collection number used as an accession number	Text	See Appendix 11b for a list of collector codes.
Did you complete the associated Scouting Form?	Reminder to submit associated scouting form	Text	Yes or no
Have you completed the associated Collection Equation Form?	Reminder to submit collection equation form	Text	Yes or no
Collector Code*	Team code	Text	Dropdown
Organization*	Federal Organization funding or managing your crew. Most BIL BAR teams will have DOI as their organization	Text	BLM, NPS, FWS, DOI
Collection Number*	Collection number	Long	
Seed Collection Reference Number*	Official SOS collection number used as an accession number	Text	Team code-collection number See Appendix 11b for a list of collector codes.
Alt. Collection Number	Another collection code or number that is not associated with the SOS collector code or number	Text	
Taxa	Full Genus and Species	Text	Drop down
NRCS PLANTS Code	USDA PLANTS Code	Text	Autofill from Taxa field
Common Name	Common name from USDA PLANTS	Text	Autofill from Taxa field
Family	Family from USDA PLANTS	Text	Autofill from Taxa field
Date 1*	First date collected	Date	Date

Adjusted_date	UTC offset calculation for the first date	Date	Date
Did you collect on a second date?		Text	Yes or no
Date2	Second date collected	Date	Date
Did you collect on additional days?		Text	Yes or no
Date range	Additional dates collected, entered in a MM/DD/YYYY format	Text	
Collector Names*	Full names of all people collecting in "Last Name, First Initial., Last Name, First Initial." Format. Example: Hill, S., Snyder,K.	Text	

Survey 123 Field		What information is collected?	Data Type	Options
Date of First Scout		First scouting date entered in a MM/DD/YYYY format	Date	Date
formatted_scoutDate		First scouting date entered in a YYYYMMDD	Text	Autofilled from "Date of First Scout" field
Scouting ID		ScoutingID in the format of [Collector Code]-[NRCS PLANTS Code]-[Date in YYYYMMDD format]-2 code unique identifier. For example, ID930-ACMI2-20240325-d4. The two code unique identifier can be a combination of letters and numbers.	Text	Autofilled from "COLL_ID", "NRCS PLANTS CODE", "formatted_scoutDate", and unique identifier created when form is first created.
Viability Equation Table	viabilityDate	Date of viability calculation	Date	
	Which seed collection method did you use?	Which method did you use to sample seeds? <ul style="list-style-type: none"> <li>•Collecting all of the seed from every fifth plant</li> <li>•Collecting 20% of the seed from every plant in the population</li> </ul>		everyFifth, everyPlant
	Number of Plants Sampled	Number of plants sampled from on this date	Long	

	Average Number of Fruits Per Plant	Average number of fruits per plant on this date	Long	
	Average number of viable seeds per fruit	Average number of viable seeds per fruit on this date	Long	
	Estimated PLS Collected	Estimated Pure Live Seeds (PLS) on this date. Different calculations are ran for the two seed collection methods.	Long	Calculated from the "Number of plants sampled", "Average number of fruits per plant", and "average number of viable seed per fruit".
	ParentGlobalID	The GlobalID that connects this table to the Seed Collection Feature Class	Guid	Do not change this value. It will break the connection.
	Total number of plants sampled from	Total sum of all the plants sampled from on multiple dates	Long	
	Average fruit per plant	Average of all the number of fruits per plant	Long	
	Average viability	Average of all the number of viable seeds per fruit	Long	
	Estimated PLS collected	Total sum of Pure Live Seeds (PLS)	Long	
	numPlants_comma	Number of plants sampled with each date sampled separated with a comma	Text	
	avgFruitPerPlant_comma	Average number of fruits per plant with each date	Text	

	sampled separated with a comma		
avgSeedPerFruit_comma	Average number of viable seeds per fruit with each date sampled separated with a comma	Text	
totalSeed_comma	Estimated Pure Live Seeds (PLS) with each date sampled separated with a comma	Text	
outboxID	Identification code that is shown in drafts and sent folder in Survey123	Text	

Survey 123 Field	What information is collected?	Data Type	Options
Approximate Number of Plants Found	Total number of plants found in the area.	Long	
Number of Plants Sampled	Total number of plants seed was collected from	Long	
Collection Area Sampled in Acres	Size of collection area in acres	Double	
Seeds Collected From	Location where seeds are collected from	Text	P, G, B, U
Average Plant Height in Feet	Average height of plants in feet	Double	
Field Notes	Notes to help with identification of specimen. If the entry in a recollection, then "RECOLLECTION" needs to be entered here.	Text	

Survey 123 Field	What information is collected?	Data Type	Options
Latitude	Latitude in decimal degrees format	Double	
Longitude	Longitude in decimal degrees format	Double	
accuracy	Horizontal accuracy in the units of your device. Please use meters	Double	
LATITUDE	Latitude in degrees, minutes, seconds format	Text	
LONGITUDE	Longitude in degrees, minutes, seconds format	Text	
GEOREF_SOURCE	Source of the coordinates. If receiving coordinates from tablet, it will be from the Geopoint	Text	GPS, Geopoint, Other
Other Source of Coordinates	Source if coordinates if GPS or Geopoint are not used.	Text	
GPS Datum	Datum of coordinates. If using the tablet, the default datum is WGS1984. If datum is not an option in the dropdown list, you will need to enter the correct datum in the Data Management Site.	Text	WGS84, NAD83, NAD27, NAD84
Elevation in meters	Elevation in meters, this is the default of the Geopoint	Long	
Elevation in feet	Elevation in feet, this is a calculation of the elevation in meters	Double	
Subunit	The descriptive name of the area given to it by the landowner or	Text	



	land manager. This may include the city, town, village, park, forest, or refuge in which the material was collected. E.g., Blue Mountains, Antelope Island State Park, Ridgecrest Field Office, Phoenix.		
Area within subunit	The geographic area where this collection was made. Geographic areas are physical or logical areas that transcend the geopolitical areas defined in the State, County, Subunit fields. These may include mountain ranges, river valleys, trail names, etc. e.g., Marigold Trail, Red Rocks Canyon, or Maroon Bells.	Text	
Location Details	The locality of the collection site, including driving and hiking directions from some recognizable point to the collection site. Be detailed enough that someone can retrace the location details and find the population using cardinal directions, mileage, and permanent landmarks.	Text	

Survey 123 Field	What information is collected?	Data Type	Options
Ecological Site Description, Habitat Type and/or National Vegetation Classification	Description of the collection site as a plant community or ecosystem	Text	
Associated Species List - NRCS Code	Associated species displayed in NRCS PLANTS code, separated by commas	Text	Species list is in the GeoPlatform forms. If you do not see your species in the forms, please reach out to the SOS National Curator and the GIS Analyst.
Associated Species List	Associated species displayed in Genus Species, separated by commas	Text	Species list is in the GeoPlatform forms. If you do not see your species in the forms, please reach out to the SOS National Curator and the GIS Analyst.
Modifying Factors	Any event that has altered the collection site, such as burning, grazing, or seeding.	Text	None, Mowed, Burned, Grazed, Flooded, Seeded, Trampled, Invasives, Other
Describe other modifying factors	If "other" was selected as a Modifying Factor, you can type in a description here.	Text	
Land Form	Description of local topography	Text	Alluvial_Fan, Alluvial_Valley, Arroyo, Backslope, Badlands, Bajada, Bald, Ballon, Basin, Bench, Blowout, Bottomland, Break, Canyon, Cliff, Coastal_Plain, Colluvial_Fan, Colluvium, Depositional_Stream_Terrace, Depression, Drainage, Draw, Drumlin_Field, Dune_Field, Escarpment, Flat, Floodplain, Floor, Foothills, Foothill, Gorge, Gulch, Gully, Highland, Hills, Hillslope, Hummock, Intermontane_Basin, Knob_and/or_Mound, Lowlands, Plains, Plateau, Ravine, Ridge, Rift_Valley, Rim, Saddle, Scour, Scree, Seep, Shoulder, Stream_Reach, Stream_Terrace, Swale, Talus, Till_Plain, Toeslope, Trench, Valleys, Wash
Land Use	How the land is used by humans	Text	Conservation, Grazing, Housing, Military, Mining, Multiple_Use, Nature_Preserve, None, Park, Private, Protected, Rangeland, Recreation, Renewables, Roadside, Timberland, Transportation, Wilderness, Wildlife_Habitat, Other

Geology	The mineral structure of the collection site, either a formation type or specific rock which makes up the parent material	Text	
Approximate Slope in Degrees	Average slope in degrees, only one number can be entered and it must be between 0 and 90.	Text	
Aspect	Aspect the slope is facing. If less than 3 degrees, "Flat" can be entered.	Text	N, S, E, W, NE, NW, SE, SW, Flat
Soil Texture	Describes the soil at the collection site with the following terms: clay, silt, and sand etc.	Text	Clay, Clay_Loam, Loam, Loamy_Sand, Sand, Sandy_Clay, Sandy_Clay_Loam, Sandy_Loam, Silt, Silt_Loam, Silty_Clay, Silty_Clay_Loam, Other
Soil Type Other		Text	
SOIL_COLOR	Refer to the Munsell Soil Color Chart and document color using the code and descriptive name.	Text	2.5R, 5R, 7.5R, 10R, 2.5YR, 5YR, 7.5YR, 10YR, 2.5Y, 5Y, 7.5Y, 10Y, 2.5GY, 5GY, 7.5GY, 10GY, 2.5G, 5G, 7.5G, 10G, 2.5BG, 7.5BG, 10BG, 2.5B, 5B, 7.5B, 10B, 2.5PB, 5PB, 7.5PB, 10PB, 10PB, 2.5P, 5P, 7.5P, 10P, 2.5RP, 5RP, 7.5RP, 10RP, N

Survey 123 Field	What information is collected?	Data Type	Options
Number of pressed specimens	Total number of pressed voucher specimen. Must be at least 3 and an integer.	Long	
Date voucher taken	Date the voucher was taken in MM/DD/YYYY format	Date	
Herbaria Receiving the Specimen	List the herbaria receiving specimen separated by commas	Text	
Alternate Voucher Number	Optional field to enter another associated voucher number	Text	
Identified by	Full name of the person who identified the species	Text	
Location of Identification	Where the specimen was identified.	Text	In_Field, From_Pressed_Specimen_on_Day_of_Collection, From_Pressed_Specimen_on_Another_Date, From_Photo
Date Identified	Date the species was identified in MM/DD/YYYY format.	Date	

Survey 123 Field	What information is collected?	Data Type	Options
Do you have wifi or service?		Text	Yes or no
State	State name, capitalized	Text	
County	County name, capitalized and without the word "county"	Text	
Ecoregion Code	Level 3 ecoregion number. Must have an "E" at the end of the number.	Text	
Ecoregion Name (Level 3)	Level 3 ecoregion name.	Text	See Appendix 11c for values
Ecoregion Name (Level 4)	Level 4 ecoregion name.	Text	See Appendix 11d for values
Land owner	Land managing agency or landowner. State, County, or City landowners are to be written as "State of ...", "County of ...", and "City of...".	Text	
Is this Collection on Non-BLM land?		Text	Yes or no
Has permission been granted by the land manager?		Text	Yes or no
BLM State	Bureau of Land Management state office.	Text	See Appendix 11e for values
BLM District Office	Bureau of Land Management district office.	Text	See Appendix 11e for values
BLM Field Office	Bureau of Land Management field office.	Text	See Appendix 11e for values
Provisional Seed Zone	Bower et al. Provisional Seed Transfer Zones using the "new_label" field. Please pay attention to the spacing when entering this value, there are	Text	25 - 30 / arid, 20 - 25 / arid, 10 - 15 / arid, 0 - 5 / arid, 5 - 10 / arid, 15 - 20 / arid, 30 - 35 / arid, 35 - 40 / arid, 40 - 45 / arid, 45 - 50 / arid, 50 - 55 / arid, 25 - 30 / very humid, 10 - 15 / very humid, 5 - 10 / very humid, 20 - 25 / very humid, 15 - 20 / very humid, 30 - 35 / very humid, 40 - 45 / very humid,

	spaces after each individual character (“-”, “/”), number (“25”, “10”, etc.), or word (“humid”, “semi-humid”, etc.)		35 - 40 / very humid, 0 - 5 / very humid, <0 / very humid, 45 - 50 / very humid, 10 - 15 / humid, 30 - 35 / humid, 15 - 20 / humid, 20 - 25 / humid, 35 - 40 / humid, 5 - 10 / humid, 25 - 30 / humid, <0 / humid, 0 - 5 / humid, 40 - 45 / humid, 45 - 50 / humid, 50 - 55 / humid, >55 / humid, 10 - 15 / semi-humid, 20 - 25 / semi-humid, 0 - 5 / semi-humid, 15 - 20 / semi-humid, 5 - 10 / semi-humid, <0 / semi-humid, 30 - 35 / semi-humid, 35 - 40 / semi-humid, 25 - 30 / semi-humid, 40 - 45 / semi-humid, 45 - 50 / semi-humid, 50 - 55 / semi-humid, >55 / semi-humid, 0 - 5 / semi-arid, 15 - 20 / semi-arid, 5 - 10 / semi-arid, <0 / semi-arid, 10 - 15 / semi-arid, 20 - 25 / semi-arid, 25 - 30 / semi-arid, 30 - 35 / semi-arid, 40 - 45 / semi-arid, 35 - 40 / semi-arid, 45 - 50 / semi-arid, 50 - 55 / semi-arid, 30 - 35 / very-arid, 35 - 40 / very-arid, 25 - 30 / very-arid, 40 - 45 / very-arid
Eastern States Seed Transfer Zone	Eastern States Seed Transfer Zones	Text	
Desert Southwest Seed Transfer Zone	Desert Southwest Seed Transfer Zone	Text	
Empirical Seed Transfer Zone - Climate Matched	Climate Matched Empirical Seed Transfer Zones, values are the GridCode or Zone.	Text	
Empirical Seed Transfer Zone - Common Garden	Common Garden Empirical Seed Transfer Zones, values are the GridCode or Zone.	Text	
Empirical Seed Transfer Zone - Landscape Genetic	Landscape Genetic Empirical Seed Transfer Zones, values are the GridCode or Zone.	Text	

## 11. Appendices

### 11a. Quick Links

#### Overall Guides

- SOS Technical Protocol
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=2d46a92cc39c4ec59d87a1faeaef11dd>
- SOS Paper Data Form
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=6025b44d19004fcebba86555c04d1de>
- SOS Glossary
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=91c98e94175743d49bc73736acf070cd>
- SOS\_Workflows\_2024
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=99b98ef5bad447d6b84c9c643154e8f0>

#### Step by Step Instructions

- Creating a New Collection \_ 2024 Scouting Record
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=a7b1c4d582454cc08cd3846648168f9e>
- Creating a New Collection \_ No Previous Scouting Point
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=47e34aab0f72468a84208152664c8594>
- Creating a New Collection \_ Historic Scouting Point
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=a4b4c4436b70402b9fe090ddbc1a1032>
- Recollecting\_Historic Collection Point and No 2024 Scouting Point
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=a97a6c8d6a124d2e9f070155fb94852a>
- Recollecting\_Historic Collection Point and 2024 Scouting Point
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=93c3d496655d4eb79d0a9b6e57d6dc24>
- Creating a 2024 Scouting Point
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=13f4dde25ba84388a185fd38655cf8b0>
- Creating a 2024 Scouting Point\_Historic Collection
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=c0c99a9463704912b1ae5a8d3e29d34c>
- Creating a 2024 Scouting Point\_Historic Scouting Point
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=a4b4c4436b70402b9fe090ddbc1a1032>
- Rescouting a point
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=1e9d79c8132e4c1ab259650afb0a1eef>
- End of Season – Creating a Report

- <https://geoplatform.maps.arcgis.com/home/item.html?id=e74071dd8c8a43ffafee7a2cb4858484>
- Editing Data
  - <https://geoplatform.maps.arcgis.com/home/item.html?id=6a6f18300af242f2963637e9de8f9ccc>

### 11b. Collector Codes

Collector Code	Full Name	Org	Latitude	Longitude	GeoPlatform Region
AK930	AK930-Alaska State Office, UAA	BLM	61.2151294	-149.893793	AK
AK930A	AK930A-Salcha-Delta SWCD	BLM	61.2151294	-149.893793	AK
AK930B	AK930B-Kawerak Inc.	BLM	64.50085457	-165.4115406	AK
AK930C	AK930C-Copper River Watershed Project	BLM	60.54528565	-145.758908	AK
AZ010	AZ010-Arizona Strip Field Office	BLM	37.083312	-113.5767084	Southwest
CA067	CA067-El Centro Field Office	BLM	32.7829472	-115.5538589	CA/Mojave
CA160	CA160-Bakersfield Field Office	BLM	35.6898066	-119.0981294	CA/Mojave
CA170	CA170-Bishop Field Office	BLM	37.3625689	-118.4196537	CA/Mojave
CA180	CA180-Mother Lode Field Office (Formerly Folsom)	BLM	38.6204698	-121.0695154	CA/Mojave
CA180A	CA180A-Mother Lode Field Office - Cosumnes River Preserve	BLM	38.26573177	-121.4392915	CA/Mojave
CA190B	CA190B-Hollister Field Office - Fort Ord National Monument	BLM	36.684399	-121.80217	CA/Mojave
CA320	CA320-Applegate Field Office (Formerly Alturas FO)	BLM	41.49506711	-120.552776	Great Basin
CA330	CA330-Arcata Field Office	BLM	40.9018033	-124.0964701	CA/Mojave
CA340	CA340-Ukiah Field Office	BLM	39.3945876	-123.2357901	CA/Mojave
CA350	CA350-Eagle Lake Field Office	BLM	40.4108799	-120.6400752	CA/Mojave
CA360	CA360-Redding Field Office	BLM	40.586547	-122.391679	CA/Mojave
CA360A	CA360A-California (Redding) - Contract	BLM	40.5871289	-122.3919342	CA/Mojave
CA370	CA370-Applegate Field Office (Formerly Surprise FO)	BLM	41.49506711	-120.552776	Great Basin



CA610	CA610-California Desert District	BLM	33.937518	-117.230593	CA/Mojave
CA930A	CA930A-California Botanic Garden (Formerly RSABG)	BLM	34.096683	-117.719779	CA/Mojave
CO130	CO130-Grand Junction Field Office	BLM	39.1185133	-108.5313808	Colorado/Utah
CO150	CO150-Uncompaghre Field Office	BLM	38.45903429	-107.8671734	Colorado/Utah
DAK930	DAK930 - Homer SWCD	BLM	59.64723098	-151.5347612	AK
DAZ00	DAZ00-DOI Tuscon, Ecoregion 81	DOI	32.2560403	-110.9951558	Southwest
DAZ01	DAZ01-DOI Flagstaff, Ecoregion 22/23	DOI	35.19941722	-111.6532818	Southwest
DAZ02	DAZ02-DOI Grand Canyon NP	DOI	36.10043672	-112.1120128	Southwest
DAZ03	DAZ03-DOI Patagonia, Ecoregion 79	DOI	31.5395256	-110.7563069	Southwest
DCA00	DCA00-DOI Central CA	DOI	36.48944107	-121.1909416	CA/Mojave
DCA01	DCA01-DOI Northern CA	DOI	40.48242403	-121.4541279	CA/Mojave
DCA02	DCA02-DOI Coastal/Southern CA	DOI	33.99602883	-119.7920655	CA/Mojave
DCA03	DCA03-DOI Mojave, CA	DOI	35.0924313	-115.519732	CA/Mojave
DCA04	DCA04-DOI Sierra, CA	DOI	37.86489138	-119.5379533	CA/Mojave
DCO00	DCO00-DOI Rocky Mountain NP	DOI	40.34589258	-105.6872565	Colorado/Utah
DCO01	DCO01-DOI Trinidad, Ecoregion 21	DOI	37.1694327	-104.5009795	Colorado/Utah
DCO02	DCO02-DOI Grand Junction, Ecoregion 18/20	DOI	39.06427794	-108.551346	Colorado/Utah
DFWS0407	DFWS0407-DOI Georgia, State Botanical Garden of Georgia	DOI	33.90278045	-83.38492113	Southeast
DFWS0801	DFWS0801-DOI Stillwater Wildlife Refuge, Carson District, and Battle Mountain District. Fallon, NV	DOI	39.51582664	-118.5202011	Great Basin
DHI00	DHI00-DOI Hawaii	DOI	19.49988483	-155.4556946	Hawaii
DID00	DID00-DOI Idaho, Minidoka	DOI	42.75420475	-113.5065624	Great Basin
DID100	DID100-DOI Boise District Office	DOI	43.56664431	-116.2066013	Great Basin
DMT00	DMT00-DOI West Montana, Ecoregion 17/41	DOI	48.713158	-113.8399468	Great Plains
DMT01	DMT01-DOI East Montana, Ecoregion 42/43	DOI	47.07040831	-104.4059105	Great Plains
DNM00	DNM00-DOI Las Cruces SW, Ecoregion 24	DOI	32.093887	-107.0692323	Southwest

DNM01	DNM01-DOI Las Cruces NE, Ecoregion 24	DOI	32.76731266	-106.2822655	Southwest
DNM02	DNM02-DOI Farmington, Ecoregion 20/22	DOI	36.72840388	-108.2200321	Southwest
DNPV00	DNPV00- DOI Ely Field Office, Great Basin NP, Nevada	DOI	38.94840197	-114.2772509	Great Basin
DNV010	DNV010-DOI Elko Field Office	DOI	40.86223747	-115.7346937	Great Basin
DNV020	DNV020- DOI Winnemucca District Office	DOI	40.97672568	-117.7136912	Great Basin
DNV040	DNV040-DOI Ely District Office	DOI	39.2936072	-114.8364971	Great Basin
DNV060	DNV060 -DOI Battle Mountain Field Office	DOI	40.63076253	-116.9553698	Great Basin
DOR020	DOR020-DOI Burns District Office	DOI	43.5232284	-119.096618	Great Basin
DUT00	DUT00-DOI Hurricane-Southwest, Ecoregion 20	DOI	37.17558579	-113.2901616	Colorado/Utah
DUT020	DUT020-DOI West Desert District	DOI	40.77909365	-112.0367783	Colorado/Utah, Great Basin
DUT03	DUT03-DOI Hurricane-Central, Ecoregion 20	DOI	37.10938354	-113.3338822	Colorado/Utah
DUT04	DUT04-DOI Moab, Ecoregion 20	DOI	38.57727207	-109.5504912	Colorado/Utah
DWA00	DWA00-DOI Washington	DOI	47.32292915	-119.9456132	PNW
DWY00	DWY00-DOI Green River WY, Ecoregion 18	DOI	41.528622	-109.4676772	Great Plains
DWY01	DWY01-DOI Grand Teton/Yellowstone NP, Ecoregion 17	NPS	44.25858981	-110.6858381	Great Plains
ES040	ES040-Northeastern States	BLM	43.43410374	-84.57567991	Midwest
FWS0100	FWS0100-PFW Region 1, The Understory Initiative	FWS	42.31798041	-122.8342991	PNW
FWS0101	FWS0100-Oregon Ecological Services with The Great Basin Institute	FWS	42.31798041	-122.8342991	PNW
FWS0202	FWS0202-New Mexico ES Field Office, Southwest Seed Partnership	FWS	35.16005685	-106.5998131	Southwest
FWS0300	FWS0300-PFW Region 3, Chicago Botanic Garden	FWS	42.76484144	-84.50531643	Midwest
FWS0400	FWS0400-PFW HQ, Southeastern Grasslands Institute	FWS	36.53593404	-87.35458508	Southeast
FWS0401	FWS0401-PFW HQ, State Botanical Garden of Georgia	FWS	33.90163707	-83.37941217	Southeast

FWS0402	FWS0402-PFW HQ, Audubon Delta	FWS	34.74768526	-92.27538317	Southeast
FWS0403	FWS0403-PFW HQ Jones Center at Ichauway	FWS	31.22091268	-84.47902821	Southeast
FWS0404	FWS0404-PFW HQ, North Carolina Botanical Garden	FWS	35.89912441	-79.03294467	Southeast
FWS0405	FWS0405-Caribbean ES Field Office, East Puerto Rico	FWS	18.20089951	-66.05258204	Puerto Rico
FWS0406	FWS0406-Caribbean ES Field Office, West Puerto Rico	FWS	18.2353742	-66.9858562	Puerto Rico
FWS0500	FWS0500-NWRS Region 5, Native Plant Trust 1	FWS	43.08415414	-70.85653325	New England
FWS0501	FWS0501-NWRS Region 5, Native Plant Trust 2	FWS	42.40003889	-71.37964833	New England
FWS0502	FWS0502-NWRS Region 5, MARSB	FWS	40.714275	-74.005978	Mid Atlantic
FWS0800	FWS0800-Reno Fish and Wildlife Office	FWS	39.50829518	-119.7476477	Great Basin
MD1	MD1-Mojave Desert Native Plant Program	BLM	34.8184143	-114.6101458	CA/Mojave
MT050	MT050-Dillon FO	BLM	45.216309	-112.637524	Great Plains
MT100	MT100-Missoula FO	BLM	46.84315371	-114.0544475	Great Plains
MT092	MT092-Glasgow FO	BLM	48.19590084	-106.6199288	Great Plains
MT923	MT923-Montana/Dakotas State Office	BLM	45.7545847	-108.5421256	Great Plains
MT923A	MT923A-Montana Conservation Corps	BLM	45.6821764	-111.0390956	Great Plains
NM080	NM080-Carlsbad Field Office	BLM	32.4200864	-104.226104	Southwest
NM930	NM930-New Mexico State Office	BLM	35.59864655	-106.0375413	Southwest
NPAK00	NPAK00- AK SOS -NPS	NPS	63.11512875	-151.192096	AK
NPAK01	NPAK01-AK Terrestrial Weeds -NPS	NPS	63.11512875	-151.192096	AK
NPAK02	NPAK02-AK Aquatic -NPS	NPS	63.11512875	-151.192096	AK
NPCA00	NPCA00-Central California - NPS	NPS	36.4945601	-121.1846796	CA/Mojave
NPCA01	NPCA01 -Northern California - NPS	NPS	40.50225305	-121.4283334	CA/Mojave
NPCA02	NPCA02-Coastal/Southern CA -NPS	NPS	33.99602883	-119.7920655	CA/Mojave
NPCA03	NPCA03-Mojave -NPS	NPS	35.0924313	-115.519732	CA/Mojave
NPCA04	NPCA04-Sierra -NPS	NPS	37.86489138	-119.5379533	CA/Mojave
NPC000	NPC000-Northern Rockies IPMT -NPS	NPS	44.55752678	-110.6071985	Colorado/Utah

NPID00	NPID00-Idaho - NPS	NPS	43.40546418	-113.5245921	Great Basin
NPMI00	NPMI00-Sleeping Bear Dunes, MI -NPS	NPS	45.10027438	-86.00935748	Midwest
NPMT00	NPMT00-Big Hole, MT -NPS	NPS	45.64687057	-113.6501568	Great Plains
NPNM00	NPNM00-Carlsbad -NPS	NPS	34.99782553	-109.7870634	Southwest
NPSD00	NPSD00-Dakotas and Nebraska -NPS	NPS	43.57281511	-103.4414861	Great Plains
NV030	NV030-Carson City Field Office	BLM	39.1834014	-119.7101878	Great Basin
NV052	NV052-Las Vegas Field Office	BLM	36.245332	-115.2432273	CA/Mojave
OR090B	OR090B-NWO District - IAE contract	BLM	44.5633914	-123.2735146	PNW
OR010	OR010-Lakeview District Office	BLM	42.17125281	-120.3462063	PNW
OR110	OR110-Medford District Office	BLM	42.3618765	-122.8734881	PNW
OR930A	OR930A-OSU Collections - BLM lands	BLM	44.5661868	-123.2671837	PNW
TYT	TYT-The Yurok Tribe	BLM	41.3830678	-123.9117169	CA/Mojave
UT030	UT030-Grand Staircase-Escalante National Monument	BLM	37.047486	-112.526311	Colorado/Utah
UT040	UT040-Cedar City Field Office	BLM	37.9187983	-113.0260403	Colorado/Utah
UT060	UT060-Moab Field Office	BLM	38.57331	-109.54984	Colorado/Utah
UT070	UT070-Price Field Office	BLM	39.59864601	-110.8196229	Colorado/Utah
UT080	UT080-Vernal Field Office	BLM	40.455516	-109.528753	Colorado/Utah
WY930	WY930-Wyoming State Office	BLM	41.1687895	-104.8266401	Great Plains
WY930A	WY930-Contractor WY State Office	BLM	41.1687895	-104.8266401	Great Plains

### 11c. Level 3 Ecoregion

- Acadian Plains and Hills
- Ahklun and Kilbuck Mountains
- Alaska Peninsula Mountains
- Alaska Range
- Aleutian Islands
- Arctic Coastal Plain
- Arctic Foothills
- Arizona/New Mexico Mountains
- Arizona/New Mexico Plateau
- Arkansas Valley
- Atlantic Coastal Pine Barrens
- Blue Mountains
- Blue Ridge
- Boston Mountains
- Bristol Bay-Nushagak Lowlands
- Brooks Range
- Canadian Rockies
- Cascades
- Central Appalachians
- Central Basin and Range

- Central California Foothills and Coastal Mountains
- Central California Valley
- Central Corn Belt Plains
- Central Great Plains
- Central Irregular Plains
- Chihuahuan Deserts
- Coast Range
- Coastal Western Hemlock-Sitka Spruce Forests
- Colorado Plateaus
- Columbia Plateau
- Cook Inlet
- Copper Plateau
- Cross Timbers
- Driftless Area
- East Central Texas Plains
- Eastern Cascades Slopes and Foothills
- Eastern Corn Belt Plains
- Eastern Great Lakes Lowlands
- Edwards Plateau
- Erie Drift Plain
- Flint Hills
- High Plains
- Huron/Erie Lake Plains
- Idaho Batholith
- Interior Bottomlands
- Interior Forested Lowlands and Uplands
- Interior Highlands
- Interior Plateau
- Interior River Valleys and Hills
- Klamath Mountains/California High North Coast Range
- Lake Agassiz Plain
- Madrean Archipelago
- Middle Atlantic Coastal Plain
- Middle Rockies
- Mississippi Alluvial Plain
- Mississippi Valley Loess Plains
- Mojave Basin and Range
- Nebraska Sand Hills
- North Cascades
- North Central Appalachians
- North Central Hardwood Forests
- Northeastern Coastal Zone
- Northeastern Highlands
- Northern Allegheny Plateau
- Northern Basin and Range
- Northern Glaciated Plains
- Northern Lakes and Forests
- Northern Minnesota Wetlands
- Northern Piedmont
- Northern Rockies
- Northwestern Glaciated Plains
- Northwestern Great Plains
- Ogilvie Mountains
- Ouachita Mountains
- Ozark Highlands
- Pacific Coastal Mountains
- Piedmont
- Puget Lowland
- Ridge and Valley
- Seward Peninsula
- Sierra Nevada
- Snake River Plain
- Sonoran Basin and Range
- South Central Plains
- Southeastern Plains
- Southeastern Wisconsin Till Plains
- Southern California Mountains
- Southern California/Northern Baja Coast
- Southern Coastal Plain
- Southern Florida Coastal Plain
- Southern Michigan/Northern Indiana Drift Plains
- Southern Rockies
- Southern Texas Plains
- Southwestern Appalachians
- Southwestern Tablelands
- Subarctic Coastal Plains
- Texas Blackland Prairies
- Wasatch and Uinta Mountains
- Western Allegheny Plateau
- Western Corn Belt Plains
- Western Gulf Coastal Plain
- Willamette Valley
- Wrangell Mountains
- Wyoming Basin
- Yukon Flats

#### 11d. Level 4 Ecoregion

- Absaroka Volcanic Subalpine Zone
- Absaroka-Gallatin Volcanic Mountains
- Acid Sensitive Adirondacks
- Adin/Dixie Low Hills
- Adin/Horsehead Mountains Forest and Woodland
- Adirondack High Peaks
- Albuquerque Basin
- Alexandria Moraines and Detroit Lakes Outwash Plain
- Alkaline Lakes Area
- Alpine Zone
- Amargosa Desert
- Amphibolite Mountains
- Anoka Sand Plain and Mississippi Valley Outwash
- Antelope Plain
- Anthracite Subregion
- Apachian Valleys and Low Hills
- Arbuckle Mountains
- Arbuckle Uplift
- Arid Canyonlands
- Arid Llano Estacado
- Arid Montane Slopes
- Arid Valleys and Canyonlands
- Arizona Strip Plateaus
- Arizona Upland/Eastern Sonoran Basins
- Arizona Upland/Eastern Sonoran Mountains
- Arizona/New Mexico Subalpine Forests
- Arkansas River Floodplain
- Arkansas Valley Hills
- Arkansas Valley Plains
- Arkansas/Ouachita River Backswamps
- Arkansas/Ouachita River Holocene Meander Belts
- Aroostook Hills
- Aroostook Lowlands
- Athens Plateau
- Atlantic Southern Loam Plains
- Bacon Terraces
- Balcones Canyonlands
- Barren Mountains
- Barren Playas
- Barrier Islands/Coastal Marshes
- Bastrop Lost Pines
- Baton Rouge Terrace
- Battle Creek/Elkhart Outwash Plain
- Bay Flats
- Bay Terraces/Lower Santa Clara Valley
- Beach Ridges and Sand Deltas
- Berkshire Transition
- Big Belt Forested Highlands
- Big Bend Coastal Marsh
- Big Cypress
- Big Hole
- Big Sioux Basin
- Big Snowy-Little Belt Carbonate Mountains
- Big Woods
- Bighorn Basin
- Bighorn Salt Desert Shrub Basins
- Bishop Volcanic Tableland
- Bitterroot-Frenchtown Valley
- Black Hills Core Highlands
- Black Hills Foothills
- Black Hills Plateau
- Black River Hills Border
- Blackland Prairie
- Blue Hills
- Blue Mountain Basins
- Bluff Hills
- Blufflands and Coulees
- Bodega Coastal Hills
- Border High-Siskiyous
- Boston Basin
- Boundary Lakes and Hills
- Broad Basins
- Broken Red Plains
- Brule and Paint River Drumlins
- Buhrstone/Lime Hills
- Butte Sink/Sutter and Colusa Basins
- Cadillac Hummocky Moraines
- Caliente Range
- California Cascades Eastside Conifer Forest

- Camanche Terraces
- Camas Prairie
- Camas Valley
- Canadian Canyons
- Canadian/Cimarron Breaks
- Canadian/Cimarron High Plains
- Canyons and Dissected Highlands
- Canyons and Dissected Uplands
- Cape Cod/Long Island
- Caprock Canyons, Badlands, and Breaks
- Carbonate Cross Timbers
- Carbonate Sagebrush Valleys
- Carbonate Woodland Zone
- Carolina Flatwoods
- Carolina Slate Belt
- Carolinian Barrier Islands and Coastal Marshes
- Carrizo Plain
- Carter Hills
- Cascade Crest Montane Forest
- Cascade Subalpine/Alpine
- Caseyville Hills
- Casper Arch
- Catskill High Peaks
- Catskills Transition
- Cattaraugus Hills
- Centennial Basin
- Central Adirondacks
- Central Florida Ridges and Uplands
- Central Foothills
- Central Hills, Ridges, and Valleys
- Central Maine Embayment
- Central Mountain Ranges
- Central Nebraska Loess Plains
- Central Nevada Bald Mountains
- Central Nevada High Valleys
- Central Nevada Mid-Slope Woodland and Brushland
- Central New Mexico Plains
- Central Plateau
- Central Puget Lowland
- Central Sand Ridges
- Central Sierra Lower Montane Forests
- Central Sierra Mid-Montane Forests
- Central Sonoran/Colorado Desert Basins
- Central Sonoran/Colorado Desert Mountains
- Central Wisconsin Undulating Till Plain
- Champlain Lowlands
- Channeled Scablands
- Cheboygan Lake Plain
- Chelan Tephra Hills
- Chequamegon Moraines and Outwash Plain
- Cherokee Plains
- Cherry Patch Moraines
- Chesapeake Rolling Coastal Plain
- Chesapeake-Pamlico Lowlands and Tidal Marshes
- Chicago Lake Plain
- Chihuahuan Basins and Playas
- Chihuahuan Desert Grasslands
- Chihuahuan Desert Slopes
- Chihuahuan Montane Woodlands
- Chinle Valley and Mesas
- Chino/Coconino Grasslands and Shrubsteppe
- Chippewa Lobe Rocky Ground Moraines
- Chippewa Plains
- Chiwaukee Prairie Region
- Chiwaukum Hills and Lowlands
- Clark Fork Valley and Mountains
- Clayey High Lime Till Plains
- Claypan Prairie
- Clear Lake Hills and Valleys
- Clearwater Mountains and Breaks
- Coastal Franciscan Redwood Forest
- Coastal Lowlands
- Coastal Plain Red Uplands
- Coastal Sand Plain
- Coastal Siskiyou
- Coastal Uplands
- Coeur d Alene Metasedimentary Zone
- Cold Basins
- Cold Desert Sagebrush-Grasslands
- Collapsed Glacial Outwash

- Conchas/Pecos Plains
- Conifer Woodlands and Savannas
- Connecticut Valley
- Continental Zone Foothills
- Continental Zone Highlands
- Coteau Lakes Upland
- Cowlitz/Chehalis Foothills
- Cowlitz/Newaukum Prairie Floodplains
- Crawford-Mammoth Cave Uplands
- Crazy Mountains
- Crestal Alpine-Subalpine Zone
- Cretaceous Dissected Uplands
- Cretaceous Hills
- Cross Timbers Transition
- Crystalline Mid-Elevation Forests
- Crystalline Subalpine Forests
- Cumberland Mountain Thrust Block
- Cumberland Plateau
- Current River Hills
- Cuyama Valley
- Darby Plains
- Death Valley/Mojave Central Trough
- Deep Loess Foothills
- Deer Lodge-Philipsburg-Avon Grassy Intermontane Hills and Valleys
- Delaware River Terraces and Uplands
- Delaware-Neversink Highlands
- Delmarva Uplands
- Delta
- Deltaic Coastal Marshes and Barrier Islands
- Dense Clay Prairie
- Des Moines Lobe
- Deschutes River Valley
- Deschutes/John Day Canyons
- Diablo Range
- Diegan Coastal Hills and Valleys
- Diegan Coastal Terraces
- Diegan Western Granitic Foothills
- Dinetah Tablelands
- Dissected Appalachian Plateau
- Dissected High Lava Plateau
- Dissected Loess Uplands
- Dissected Plateau
- Dissected Plateaus and Teton Basin
- Dissected Springfield Plateau-Elk River Hills
- Door Peninsula
- Dougherty Plain
- Downeast Coast
- Drift Plains
- Dry Gneissic-Schistose-Volcanic Hills
- Dry Intermontane Sagebrush Valleys
- Dry Mid-elevation Sedimentary Mountains
- Dry Partly Wooded Mountains
- Duzel Rock
- East Bay Hills/Western Diablo Range
- Eastern Adirondack Foothills
- Eastern Batholith
- Eastern Blue Ridge Foothills
- Eastern Cross Timbers
- Eastern Divide Mountains
- Eastern Florida Flatwoods
- Eastern Gravelly Mountains
- Eastern Highland Rim
- Eastern Hills
- Eastern Iowa and Minnesota Drift Plains
- Eastern Klamath Low Elevation Forests
- Eastern Klamath Montane Forests
- Eastern Maine-Southern New Brunswick Plains
- Eastern Mojave Basins
- Eastern Mojave High Elevation Mountains
- Eastern Mojave Low Ranges and Arid Footslopes
- Eastern Mojave Mountain Woodland and Shrubland
- Eastern Ozark Border
- Eastern Pioneer Sedimentary Mountains
- Eastern Puget Riverine Lowlands
- Eastern Puget Uplands
- Eastern Sierra Great Basin Slopes
- Eastern Sierra Mojavean Slopes
- Eastern Snake River Basalt Plains
- Edwards Plateau Woodland
- Elkhorn Mountains-Boulder Batholith



- End Moraine Complex
- Erie Gorges
- Erie/Ontario Lake Plain
- Escarpments
- Everglades
- Fall Line Hills
- Finger Lakes Uplands and Gorges
- Flat Tablelands and Valleys
- Flat to Rolling Plains
- Flathead Hills and Mountains
- Flathead Thrust Faulted Carbonate-Rich Mountains
- Flathead Valley
- Flatwoods
- Flatwoods/Blackland Prairie Margins
- Flint Creek-Anaconda Mountains
- Flint Hills
- Floodplains and Low Terraces
- Foothill Grassland
- Foothill Grasslands
- Foothill Potholes
- Foothill Ridges and Valleys
- Foothill Shrublands
- Foothill Shrublands and Low Mountains
- Foothill Shrublands-Grasslands
- Forested Beaverhead Mountains
- Forested Buttes
- Forested Hills and Mountains
- Forested Lake Plains
- Fort Bragg/Fort Ross Terraces
- Fourche Mountains
- Fraser Lowland
- Fremont Pine/Fir Forest
- Front Range Fans
- Gabilan Range
- Gila/Salt Intermediate Basins
- Glacial Lake Agassiz Basin
- Glacial Lake Basins
- Glacial Lake Deltas
- Glacial Lake Wisconsin Sand Plain
- Glacial Lakes Upham and Aitkin
- Glacial Outwash
- Glaciated Allegheny Hills
- Glaciated Bitterroot Mountains and Canyons
- Glaciated Dark Brown Prairie
- Glaciated High Allegheny Plateau
- Glaciated Low Allegheny Plateau
- Glaciated Northern Grasslands
- Glaciated Reading Prong/Hudson Highlands
- Glaciated Triassic Lowlands
- Glaciated Wabash Lowlands
- Gneissic-Schistose Forested Mountains
- Grand Canyon
- Grand Fir Mixed Forest
- Grand Marais Lakeshore
- Grand Prairie
- Granitic Alluvial Fans and Terraces
- Granitic Subalpine Zone
- Grapevine Transition
- Grassland Parks
- Grassy Potlatch Ridges
- Grave Creek Range-Nine Mile Divide
- Great Bend Sand Prairie
- Green Bay Till and Lacustrine Plain
- Green Mountain Foothills
- Green Mountains/Berkshire Highlands
- Green River-Southern Wabash Lowlands
- Greenbriar Karst
- Gulf Barrier Islands and Coastal Marshes
- Gulf Coast Flatwoods
- Gulf of Maine Coastal Lowland
- Gulf of Maine Coastal Plain
- Gypsiferous Dunes
- Gypsum Hills
- Hackensack Meadowlands
- High Desert Wetlands
- High Elevation Carbonate Mountains
- High Elevation Forests and Shrublands
- High Elevation Ruby Mountains
- High Elevation Valleys
- High Elevation Warner Mountains
- High Glacial Drift-Filled Valleys
- High Idaho Batholith
- High Lava Plains
- High Mountains

- High North Coast Ranges
- High Northern Rockies
- High Olympics
- High Plateaus
- High Southern Cascades Montane Forest
- Hills of the Bluegrass
- Holt Tablelands
- Hopi Buttes
- Hot Dry Canyons
- Hualapai/Coconino Woodlands
- Hudson Valley
- Illinois/Indiana Prairies
- Imperial/Lower Coachella Valleys
- Inland Hills
- Inland Maritime Foothills and Valleys
- Inland Siskiyou
- Inland Swamps
- Inland Valleys
- Inner Bluegrass
- Inner Coastal Plain
- Inner Nashville Basin
- Interior Santa Lucia Range
- Interlobate Dead Ice Moraines
- International Boundary Plateau
- Itasca and St. Louis Moraines
- Jackson Prairie
- James River Lowland
- John Day/Clarno Highlands
- John Day/Clarno Uplands
- Judith Basin Grassland
- Kaibito/Moenkopi Sandy Plateaus
- Kankakee Marsh
- Karstic Northern Ozarkian River Bluffs
- Kern Terraces
- Kettle Moraines
- Keweenaw-Baraga Moraines
- Keya Paha Tablelands
- King Range/Mattole Basin
- Kings Mountain
- Klamath Juniper Woodland/Devils Garden
- Klamath River Ridges
- Klamath Subalpine
- Klamath/Goose Lake Basins
- Knobs-Lower Scioto Dissected Plateau
- Knobs-Norman Upland
- Kootenai Valley
- Lafayette Loess Plains
- Laguna Madre Barrier Islands and Coastal Marshes
- Lahontan and Tonopah Playas
- Lahontan Sagebrush Slopes
- Lahontan Salt Shrub Basin
- Lahontan Uplands
- Lake Agassiz Plains
- Lake Michigan Lacustrine Clay Plain
- Lake Michigan Moraines
- Lake Superior Clay Plain
- Lakes Area
- Lansing Loamy Plain
- Laramie Basin
- Lava Fields
- Lava Malpais
- Leeward Hills
- Likely Tableland
- Limestone Cut Plain
- Limestone Hills
- Limestone Plains
- Limestone Valleys and Coves
- Limy Foothill Grassland
- Limy Foothill Savanna
- Little Colorado Valley/Painted Desert
- Little Missouri Badlands
- Little Mountain
- Livermore Hills and Valleys
- Llano Estacado
- Llano Uplift
- Loamy High Lime Till Plains
- Lochsa Uplands
- Lochsa-Selway-Clearwater Canyons
- Lodi Alluvium
- Loess and Glacial Drift Hills
- Loess Flats and Till Plains
- Loess Islands
- Loess Plains
- Loess Prairies
- Long Island Sound Coastal Lowland
- Los Angeles Plain
- Low Lime Drift Plain
- Low Mountains and Bajadas

- Low Olympics
- Low Poconos
- Low Southern Cascades Mixed Conifer Forest
- Lower Berkshire Hills
- Lower Boston Mountains
- Lower Canadian Hills
- Lower Clearwater Canyons
- Lower Colorado/Lower Gila River Valleys
- Lower Grand Canyon
- Lower Madrean Woodlands
- Lower Mogollon Transition
- Lower Platte Alluvial Plain
- Lower Rio Grande Alluvial Floodplain
- Lower Rio Grande Valley
- Lower Snake and Clearwater Canyons
- Lower St. Croix and Vermillion Valleys
- Lower Worcester Plateau/Eastern Connecticut Upland
- Macon Ridge
- Mad River Interlobate Area
- Madrean Basin Grasslands
- Madrean Lower Montane Woodlands
- Madrean Pine-Oak and Mixed Conifer Forests
- Magic Valley
- Malad and Cache Valleys
- Manistee-Leelanau Shore
- Manteca/Merced Alluvium
- Marble Platform
- Marble/Salmon Mountains-Trinity Alps
- Marblehead Drift/Limestone Plain
- Marin Hills
- Maritime-Influenced Zone
- Maumee Lake Plain
- Mayacmas Mountains
- McGrath Till Plain and Drumlins
- Melange
- Menominee Drumlins and Ground Moraine
- Menominee-Drummond Lakeshore
- Meramec River Hills
- Mesa de Maya/Black Mesa
- Mesa Highlands
- Mesabi Range
- Mesic Dissected Plains
- Mesic Forest Zone
- Mesquite Flat/Badwater Basin
- Miami Ridge/Atlantic Coastal Strip
- Michigamme Highland
- Michigan Lake Plain
- Mid-Atlantic Flatwoods
- Mid-Atlantic Floodplains and Low Terraces
- Midcoast
- Mid-Coast Barrier Islands and Coastal Marshes
- Mid-Coastal Sedimentary
- Middle Gila/Salt River Floodplains
- Middle Mississippi Alluvial Plain
- Middle Tippecanoe Plains
- Mid-Elevation Ruby Mountains
- Mid-elevation Sedimentary Mountains
- Mid-Elevation Uinta Mountains
- Missouri Coteau Slope
- Milk River Pothole Upland
- Minnesota River Prairie
- Minnesota/Wisconsin Upland Till Plain
- Mio Plateau
- Missouri Alluvial Plain
- Missouri Breaks Woodland-Scrubland
- Missouri Coteau
- Missouri Coteau Slope
- Missouri Plateau
- Mitchell Plain
- Moderate Relief Plains
- Modoc Lava Flows and Buttes
- Modoc/Lassen Juniper-Shrub Hills and Mountains
- Mogollon Transition Conifer Forests
- Mohawk Valley
- Moist Wasatch Front Footslopes
- Mojave Lava Fields
- Mojave Playas
- Mojave Sand Dunes
- Mono-Adobe Valleys
- Monongahela Transition Zone

- Montana Central Grasslands
- Montane and Subalpine Grasslands
- Montane Conifer Forests
- Monterey Bay Plains and Terraces
- Monticello-Cortez Uplands
- Moosehead-Churchill Lakes
- Moreau Prairie
- Morena/Boundary Mountain Chaparral
- Mosquito Creek/Pymatuning Lowlands
- Mountain Home Uplands
- Mountain Valleys
- Napa-Sonoma-Lake Volcanic Highlands
- Napa-Sonoma-Russian River Valleys
- Narragansett/Bristol Lowland
- Nashwauk/Marcell Moraines and Uplands
- Near-Rockies Valleys and Mesas
- Nebraska/Kansas Loess Hills
- New River Plateau
- Newaygo Barrens
- Nez Perce Prairie
- Niobrara River Breaks
- Non-calcareous Foothill Grassland
- North Cascades Highland Forests
- North Cascades Lowland Forests
- North Cascades Subalpine/Alpine
- North Central Brown Glaciated Plains
- North Central New Mexico Valleys and Mesas
- North Coast Range Eastern Slopes
- North Shore Highlands
- North Valley Alluvium
- Northeast Arizona Shrub-Grasslands
- Northeastern Nebraska Loess Hills
- Northeastern Sierra Mixed Conifer-Pine Forests
- Northern and Western Adirondack Foothills
- Northern Backswamps
- Northern Black Prairie
- Northern Blackland Prairie
- Northern Channel Islands
- Northern Connecticut Valley
- Northern Cross Timbers
- Northern Dark Brown Prairie
- Northern Dissected Ridges and Knobs
- Northern Forested Plateau Escarpment
- Northern Franciscan Redwood Forest
- Northern Front
- Northern Glaciated Limestone Ridges, Valleys, and Terraces
- Northern Glaciated Limestone Valleys
- Northern Glaciated Ridges
- Northern Glaciated Shale and Slate Valleys
- Northern Hilly Gulf Coastal Plain
- Northern Holocene Meander Belts
- Northern Humid Gulf Coastal Prairies
- Northern Idaho Hills and Low Relief Mountains
- Northern Igneous Ridges
- Northern Indiana Lake Country
- Northern Inner Piedmont
- Northern Limestone/Dolomite Valleys
- Northern Missouri Coteau
- Northern Nueces Alluvial Plains
- Northern Outer Piedmont
- Northern Piedmont
- Northern Pleistocene Valley Trains
- Northern Post Oak Savanna
- Northern Prairie Outliers
- Northern Sandstone Ridges
- Northern Santa Lucia Range
- Northern Sedimentary and Metasedimentary Ridges
- Northern Shale Valleys
- Northern Shawnee Hills
- Northern Sierra Lower Montane Forests
- Northern Sierra Mid-Montane Forests
- Northern Sierra Subalpine Forests
- Northern Sierra Upper Montane Forests
- Northern Sierran Foothills
- Northern Terraces
- Northern Transverse Range
- Northern Uinta Basin Slopes

- Northern Wisconsin Highlands Lakes Country
- Northern Woodlands and Sagebrush
- Northwestern Cross Timbers
- Oak Openings
- Oak Savanna Foothills
- Oak/Conifer Foothills
- Ohio/Kentucky Carboniferous Plateau
- Okanogan Drift Hills
- Okanogan Highland Dry Forest
- Okanogan Pine/Fir Hills
- Okanogan Valley
- Okanogan-Colville Xeric Valleys and Foothills
- Okefenokee Plains
- Okefenokee Swamp
- Old Cascades
- Olympic Rainshadow
- Onaway Moraines
- Ontario Lowlands
- Osage Cuestas
- Osage/Gasconade Hills
- Outer Bluegrass
- Outer Nashville Basin
- Outer North Coast Ranges
- Outwash
- Owyhee Uplands and Canyons
- Oxnard Plain and Valleys
- Palouse Hills
- Panoche and Cantua Fans and Basins
- Paradise Valley
- Partly Forested Mountains
- Pasayten/Sawtooth Highlands
- Paso Robles Hills and Valleys
- Passaic Basin Freshwater Wetlands
- Paulding Plains
- Peatlands
- Pembina Escarpment
- Penobscot Lowlands
- Perkinstown End Moraines
- Permian Hills
- Piedmont Limestone/Dolomite Lowlands
- Piedmont Plains and Tablelands
- Piedmont Uplands
- Pine Barrens
- Pine Bluffs and Hills
- Pine Mountain Ridges
- Pine Ridge Escarpment
- Pine Scoria Hills
- Pine-Oak Woodlands
- Pinyon-Juniper Woodlands and Savannas
- Pioneer-Anaconda Ranges
- Pit River Valleys
- Pittsburgh Low Plateau
- Plains of San Agustin
- Plateau Escarpment
- Platte River Outwash
- Platte River Valley
- Platte River Valley and Terraces
- Pleasant Valley/Kettleman Plain
- Pleistocene Fluvial Terraces
- Pleistocene Lake Basins
- Pleistocene Sand Dunes
- Pluvial Lake Basins
- Pocono High Plateau
- Point Reyes/Farallon Islands
- Ponca Plains
- Ponderosa Pine/Bitterbrush Woodland
- Portland/Vancouver Basin
- Powder River Basin
- Prairie Coteau
- Prairie Coteau Escarpment
- Prairie Ozark Border
- Prairie Tableland
- Prairie Terraces
- Pre-Wisconsinan Drift Plains
- Pryor-Bighorn Foothills
- Pumice Plateau
- Pumice Plateau Basins
- Purcell-Cabinet-North Bitterroot Mountains
- Purgatoire Hills and Canyons
- Quebec/New England Boundary Mountains
- Rainwater Basin Plains
- Rattlesnake-Blackfoot-South Swan-Northern Garnet-Sapphire Mountains
- Reading Prong
- Red Prairie

- Red River Bottomlands
- Red River Tablelands
- Rensselaer Plateau
- Rio Grande Floodplain
- Rio Grande Floodplain and Terraces
- River Breaks
- River Hills
- Rochester/Paleozoic Plateau Upland
- Rock River Drift Plain
- Rock River Hills
- Rocky Mountain Conifer Forests
- Rocky Mountain Front Foothill Potholes
- Rocky Mountain Subalpine Forests
- Rogue/Illinois/Scott Valleys
- Rolling Coastal Plain
- Rolling Loess Prairies
- Rolling Plains and Breaks
- Rolling Red Hills
- Rolling Sagebrush Steppe
- Rolling Sand Plains
- Rudyard Clay Plain
- Sacramento/Feather Riverine Alluvium
- Sagebrush Basins and Slopes
- Sagebrush Parks
- Sagebrush Steppe
- Sagebrush Steppe Valleys
- Saginaw Lake Plain
- Salinas Valley
- Salinas-Cholame Hills
- Saline Area
- Salish Mountains
- Salt Desert Shrub Basins
- Salt Deserts
- Salt Flats
- Salt Plains
- Salt Shrub Valleys
- Saltbush-Dominated Valleys
- San Antonio Prairie
- San Francisco Peninsula
- San Joaquin Basin
- San Juan Islands
- San Juan/Chaco Tablelands and Mesas
- San Luis Alluvial Flats and Wetlands
- San Luis Shrublands and Hills
- San Mateo Coastal Hills
- Sand Area
- Sand Deserts
- Sand Dunes and Sand Sheets
- Sand Hills
- Sand Hills/Sand Dunes
- Sandsheets
- Sandy and Silty Tablelands
- Santa Ana Mountains
- Santa Barbara Coastal Plain and Terraces
- Santa Cruz Mountains
- Santa Lucia Coastal Forest and Woodland
- Santa Maria/Santa Ynez Valleys
- Sauratown Mountains
- Savanna Section
- Scattered Eastern Igneous-Core Mountains
- Scattered High Ridges and Mountains
- Scott Mountains
- Sea Island Flatwoods
- Sea Islands/Coastal Marsh
- Sebago-Ossipee Hills and Plains
- Sedimentary Mid-Elevation Forests
- Sedimentary Subalpine Forests
- Sedimentary Subalpine Zone
- Selkirk Mountains
- Semiarid Benchlands and Canyonlands
- Semiarid Canadian Breaks
- Semiarid Edwards Bajada
- Semiarid Edwards Plateau
- Semiarid Foothills
- Semiarid Hills and Low Mountains
- Semiarid Pierre Shale Plains
- Semiarid Tablelands
- Semiarid Uplands
- Seney-Tahquamenon Sand Plain
- Sequatchie Valley
- Serpentine Siskiyou
- Shadscale-Dominated Saline Basins
- Shale Deserts and Sedimentary Basins
- Shale Hills

- Shasta Valley
- Shield-Smith Valleys
- Shinnery Sands
- Sierra Nevada-Influenced High Elevation Mountains
- Sierra Nevada-Influenced Ranges
- Sierra Nevada-Influenced Semiarid Hills and Basins
- Sierra Valley
- Sierran Alpine
- Smoky Hills
- Solomon-Purisima-Santa Ynez Hills
- Sonoma-Mendocino Mixed Forest
- Sonoran Lava Fields
- Sonoran Playas
- South Clearwater Forested Mountains
- South Valley Alluvium
- Southeastern Floodplains and Low Terraces
- Southeastern Wisconsin Savannah and Till Plain
- Southern Backswamps
- Southern Blackland/Fayette Prairie
- Southern California Lower Montane Shrub and Woodland
- Southern California Montane Conifer Forest
- Southern California Subalpine/Alpine
- Southern Carbonate Front
- Southern Cascades Foothills
- Southern Cascades Slope
- Southern Channel Islands
- Southern Clayey Basins
- Southern Coast and Islands
- Southern Crystalline Ridges and Mountains
- Southern Dissected Ridges and Knobs
- Southern Forested Mountains
- Southern Garnet Sedimentary-Volcanic Mountains
- Southern Hardpan Terraces
- Southern Hilly Gulf Coastal Plain
- Southern Holocene Meander Belts
- Southern Illinoian Till Plain
- Southern Inner Piedmont
- Southern Limestone/Dolomite Valleys and Low Rolling Hills
- Southern Metasedimentary Mountains
- Southern Missouri Coteau
- Southern Missouri Coteau Slope
- Southern New England Coastal Plains and Hills
- Southern New Mexico Dissected Plains
- Southern Oregon Coastal Mountains
- Southern Outer Piedmont
- Southern Ozarkian River Bluffs
- Southern Pine Plains and Hills
- Southern Pleistocene Valley Trains
- Southern Post Oak Savanna
- Southern Puget Prairies
- Southern River Breaks
- Southern Rolling Plains
- Southern Sandstone Ridges
- Southern Santa Lucia Range
- Southern Sedimentary Ridges
- Southern Shale Valleys
- Southern Shawnee Hills
- Southern Sierra Lower Montane Forest and Woodland
- Southern Sierra Mid-Montane Forests
- Southern Sierra Subalpine Forests
- Southern Sierra Upper Montane Forests
- Southern Sierran Foothills
- Southern Subhumid Gulf Coastal Prairies
- Southern Table Plateaus
- Southern Tertiary Uplands
- Southwestern Florida Flatwoods
- Spokane Valley Outwash Plains
- Springfield Plateau
- St. Croix Pine Barrens
- St. Croix Stagnation Moraines
- St. Francis Lowlands
- St. Francois Knobs and Basins
- St. Joe Schist-Gneiss Zone
- St. John Uplands
- St. Lawrence Lowlands

- Steeply Rolling Loess Prairies
- Stillwater-Swan Wooded Valley
- Stockton Basin
- Stockton Plateau
- Subalpine-Alpine Zone
- Subhumid Pierre Shale Plains
- Sub-Irrigated High Valleys
- Suisun Terraces and Low Hills
- Summit Interlobate Area
- Sunapee Uplands
- Sunset Crater Volcanics
- Superior Mineral Ranges
- Sutter Buttes
- Swamps and Peatlands
- Sweetgrass Uplands
- Taconic Foothills
- Taconic Mountains
- Talladega Upland
- Tallahasee Hills/Valdosta Limesink
- Taos Plateau
- Tawas Lake Plain
- Tehachapi Foothills
- Tehachapi Mountains
- Tehama Terraces
- Temblor Range/Elk Hills
- Tertiary Uplands
- Tewaukon/Big Stone Stagnation Moraine
- Texas-Louisiana Coastal Marshes
- Texas-Tamaulipan Thornscrub
- Tifton Upland
- Tobacco Plains
- Tobacco Root Mountains
- Toimi Drumlins
- Tonopah Basin
- Tonopah Sagebrush Foothills
- Tonopah Uplands
- Townsend Basin
- Townsend-Horseshoe-London Sedimentary Hills
- Transition Hills
- Transitional Sandy Plain
- Trap Rock and Conglomerate Uplands
- Treasure Valley
- Triassic Basins
- Triassic Lowlands
- Tug Hill Plateau
- Tug Hill Transition
- Tulare Basin/Fresno Slough
- Turtle Mountains
- Tuscan Flows
- Uinkaret/Aubrey Montane Conifer Forest
- Uinta Basin Floor
- Uinta Subalpine Forests
- Umatilla Dissected Uplands
- Umatilla Plateau
- Umpqua Interior Foothills
- Unglaciated High Allegheny Plateau
- Unglaciated Montana High Plains
- Unglaciated Upper Muskingum Basin
- Unwooded Alkaline Foothills
- Uplands and Valleys of Mixed Land Use
- Upper Boston Mountains
- Upper Canadian Plateau
- Upper Coachella Valley and Hills
- Upper Humboldt Plains
- Upper Lahontan Basin
- Upper Mississippi Alluvial Plain
- Upper Montane/Alpine Zone
- Upper Owens Valley
- Upper Sacramento River Alluvium
- Upper Santa Clara Valley
- Upper Snake River Plain
- Upper St. John Wet Flats
- Upper St. Lawrence Valley
- Upper Wolf River Stagnation Moraine
- Valley Foothills
- Valparaiso-Wheaton Morainal Complex
- Vanderbilt Moraines
- Venturan-Angelino Coastal Hills
- Vermont Piedmont
- Virgin/Shiwits Woodland
- Virginian Barrier Islands and Coastal Marshes
- Volcanic Mid-Elevation Forests
- Volcanic Subalpine Forests
- Volcanics
- Wabash River Bluffs and Low Hills
- Wabash-Ohio Bottomlands



- Wadena/Todd Drumlins and Osakis Till Plain
- Wallawas/Seven Devils Mountains
- Warner Mountains
- Wasatch Montane Zone
- Weippe Prairie
- Wenatchee/Chelan Highlands
- Western Beaverhead Mountains
- Western Canadian Rockies
- Western Cascades Lowlands and Valleys
- Western Cascades Montane Highlands
- Western Cross Timbers
- Western Dissected Illinoian Till Plain
- Western Highland Rim
- Western Klamath Low Elevation Forests
- Western Klamath Montane Forests
- Western Loess Hills
- Western Lowlands Holocene Meander Belts
- Western Lowlands Pleistocene Valley Trains
- Western Maine Foothills
- Western Mojave Basins
- Western Mojave High Elevation Mountains
- Western Mojave Low Ranges and Arid Foothills
- Western Mojave Mountain Woodland and Shrubland
- Western New England Marble Valleys
- Western Okanogan Semiarid Foothills
- Western Ouachita Valleys
- Western Ouachitas
- Western Pennyroyal Karst Plain
- Western Selkirk Maritime Forest
- Western Sonoran Basins
- Western Sonoran Mountain Woodland and Shrubland
- Western Sonoran Mountains
- Western Transverse Range Lower Montane Shrub and Woodland
- Western Transverse Range Montane Forest
- Western Valley Foothills/Dunnigan Hills
- Westside Alluvial Fans and Terraces
- Wet Meadow and Marsh Plain
- Wetlands
- White Mountain Foothills
- White Mountains/Blue Mountains
- White River Badlands
- White River Hills
- Whitewater Interlobate Area
- Wichita Mountains
- Willamette River and Tributaries Gallery Forest
- Willapa Hills
- Willcox Playa
- Winegar Dead Ice Moraine
- Wisconsin/Michigan Pine Barrens
- Wooded Osage Plains
- Woodland- and Shrub-Covered Low Mountains
- Worcester/Monadnock Plateau
- Yakima Folds
- Yakima Plateau and Slopes
- Yellowstone Plateau
- Yolo Alluvial Fans
- Yolo/American Basin

**11e. BLM Administrative Units**

BLM State	BLM District Office	BLM Field Office
NM	Farmington District Office	Taos Field Office
NV	Coeur D'Alene District Office	Prineville Central Oregon Field Office
AZ	Northeastern States District Office	Burns Three Rivers Field Office

AK	Green River	Owyhee Field Office
OR	Colorado River District Office	Medford Grants Pass Field Office
CO	Battle Mountain District	Burns Andrews Field Office
CA	Arctic District Office	Price Field Office
ES	High Plains District	Wells Field Office
UT	Ely District	Tonopah Field Office
MT	Twin Falls District Office	Dillon Field Office
WY	Southern Nevada District	Nw Oregon Upper Willamette Field Off.
ID	Central California District	Arcata Field Office
	Vale District Office	Caliente Field Office
	Southwest District Office	Lakeview District Lakeview Field Offc
	Paria River	Glasgow Field Office
	Prineville District Office	Gunnison Field Office
	Northwest District Office	Ukiah Field Office
	Roseburg District Office	Lewistown Field Office
	Carson City District	Uncompahgre Field Office
	Winnemucca District	Grand Junction Field Office
	Coos Bay District Office	Richfield Field Office
	Rocky Mountain District Office	Humboldt River Field Office
	High Desert District	Sierra Front Field Office
	Canyon Country	Newcastle Field Office
	Western Montana District Office	Rock Springs Field Office
	Las Cruces District Office	Tres Rios Field Office
	Pecos District Office	Kanab Field Office
	Spokane District Office	Las Vegas Field Office
	Nw Oregon District Office	Hassayampa Field Office
	Lakeview District Office	Butte Field Office
	Eastern Montana/Daks District Office	Grand Canyon/Parashant National Monum
	Wind River Bighorn Basin District	Bishop Field Office
	Idaho Falls District Office	Challis Field Office
	Albuquerque District Office	Cottonwood Field Office

	Arizona Strip District Office	Safford Field Office
	Burns District Office	Vale Malheur Field Office
	Fairbanks District Office	Arizona Strip Field Office
	Phoenix District Office	Rawlins Field Office
	North Central Montana District Office	Cedar City Field Office
	Elko District	Carlsbad Field Office
	Color Country	Nw Oregon Tillamook Field Office
	Northern California District	Billings Field Office
	California Desert District	Lake Havasu Field Office
	Boise District Office	Coos Bay Umpqua Field Office
	Anchorage District Office	Colorado River Valley Field Office
	Southeastern States District Office	Ridgecrest Field Office
	Upper Colorado River District Office	Bakersfield Field Office
	West Desert	Coeur D'Alene Field Office
	Medford District Office	Nw Oregon Siuslaw Field Office
	Gila District Office	Bristlecone Field Office
		Jarbidge Field Office
		Coos Bay Myrtlewood Field Office
		Miles City Field Office
		Tuscarora Field Office
		Medford Ashland Field Office
		Vale Baker Field Office
		Stillwater Field Office
		Little Snake Field Office
		Vernal Field Office
		Spokane Border Field Office
		Rio Puerco Field Office
		Cody Field Office
		Oklahoma Field Office
		Black Rock Field Office
		Pahrump Field Office

	Upper Snake Field Office
	Moab Field Office
	Burley Field Office
	Spokane Wenatchee Field Office
	Roseburg District Swiftwater Fo
	Lower Sonoran Field Office
	Casper Field Office
	Eastern Interior Field Office
	Kremmling Field Office
	Barstow Field Office
	Royal Gorge Field Office
	Medford Butte Falls Field Office
	Four Rivers Field Office
	Roswell Field Office
	Missoula Field Office
	Applegate Field Office
	Shoshone Field Office
	Kemmerer Field Office
	Farmington Field Office
	Nw Oregon Marys Peak Field Office
	St George Field Office
	Glennallen Field Office
	Pinedale Field Office
	Worland Field Office
	White River Field Office
	Anchorage Field Office
	Yuma Field Office
	Kingman Field Office
	Tucson Field Office
	Basin & Range National Monument
	Central Yukon Field Office

	Needles Field Office
	Mount Lewis Field Office
	Socorro Field Office
	North Dakota Field Office
	Monticello Field Office
	Red Rock/Sloan Canyon Nca Field Offic
	Salt Lake Field Office
	South Dakota Field Office
	Motherlode Field Office
	Central Coast Field Office
	El Centro Field Office
	Pocatello Field Office
	Lakeview Klamath Falls Field Office
	Nw Oregon Cascades Field Office
	Salmon Field Office
	Medford Grants Pass Field Office
	Prineville Deschutes Field Office
	San Luis Valley Field Office
	Havre Field Office
	Palm Springs/S Coast Fld Ofc
	Fillmore Field Office
	Upper Missouri River Breaks Nm
	Malta Field Office
	Bruneau Field Office
	Eagle Lake Field Office
	Buffalo Field Office
	Redding Field Office
	Roseburg District South River Fo
	Lander Field Office

