

Pigeon Guillemot Survey

Beach Data Sheet (BDS) Directions

General Notes:

1. First, thank you for your time and effort given to this study! It is deeply appreciated.
2. Be sure to download the latest version of the BDS to collect data. There should be no year indicated in the document title. There will be a version/date indicated on the bottom of the document.
3. For beaches with more than one observation point, having surveyors positioned at multiple observation points:
 - a. Before leaving the beach, apply your documented process to determine the PG count for each count period.
 - b. Before leaving the beach, deconflict any observations noted by volunteers from more than one observation point to avoid double counting prey deliveries or other errors.
 - c. The Colony Lead should prepare a summary BDS that captures the observations from the volunteers from all observation points. This is the BDS that will be the official copy to enter data from and to be uploaded into Survey123.
4. Record data into Survey123 within one week of the survey date. This gives the Colony Lead a chance to resolve any questions before time erases memories. And entering the data as the season progresses allows the data team to follow progress, find issues early and report on our PG status throughout the season.
5. You will need to create a jpeg or pdf (photo or scanned) of the BDS to upload into Survey123. Prior to uploading, make sure that writing is clearly legible in photos or scans of the BDS. Ask for assistance if you are unsure how to create a photo or scan.

Section 1 - Colony Wide Activity: Fill in the following for each week.

Colony Name

Survey Date

Survey Week: Number your Data Sheets sequentially, one each week, starting with 1.

Lead Name

Start Time: Must be 8:00 or prior.

Observers: List the names of all observers, including the Lead if also observing.

Tide in feet at start: Consult tide charts or apps. Circle whether + or -.

Direction: Incoming or Outgoing: Circle appropriate answer.

Volunteer Time: This includes one hour of survey, settling in time prior to the survey, and travel time for all volunteers. Also include time used for data entry. Should be entered in hours, and fractions of hours, i.e., 2.75 hours.

PIGU Counts: Count the guillemots that you see that are associated with the colony. They may

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be on the bluff, the beach, the water or flying past. Do not count every black dot, or the guillemots that you recognize way offshore. Just the birds close enough to be part of the colony.

Start: After the birds have settled, begin the survey with a PG count.

Middle: At the 30-minute mark (middle of survey), take and record a second PG count.

End: At the one-hour mark (end of survey), take and record the final PG count.

Section 2 - Disturbances: Occasionally disturbances will occur that cause the birds to fly away from the beach, vacate the burrows, or retreat offshore and away from the colony.

1. Record the time when the birds become disturbed in the column under the listed cause. The most common causes (eagle, beach walker, etc.) are listed. If you do not know the cause, list the time under unknown. If you know the cause, list under "Other Cause" and note the cause in the white bar with any other notes you feel important.
2. Watch the birds to determine the end time of the disturbance. Not all birds will return together. When 40% or more have returned to normal behavior, you can consider the disturbance ended.
3. If the disturbance ends before the end of the survey, mark "Y" and enter the actual start and end time. If the disturbance remains active beyond the end of your survey time, mark "N" and actual start time followed by the survey end time.

General Survey Notes: Note unusual events, weather or behaviors that pertain to the general information or disturbances here. Especially note if observations were impacted by heavy fog.

Section 3 - Burrow Data: If you have visits with or without prey, fill in these fields.

Survey Date: Same as on page 1.

Survey Week: Same as on page 1.

Burrow ID: Enter data for each burrow where activity is observed. IDs should contain no more than three alphanumeric characters. Capitalize all letters. Do not use special characters.

Visit to Burrow (No Prey): Mark the time of the visit in this field when PGs visit without any food. Add subsequent **Visit to Burrow (No Prey)** visits to the burrow, separated by commas.

Sculpin, Gunnel, Other/Unknown: Most fish delivered will be either gunnels or sculpins. Mark the times of each type of fish delivered in the appropriate box to the right of the burrow ID. If you can't identify the prey, record the time in the box marked **Other/Unknown**. (Identify the prey if possible. For example, if you see a perch, cod or shrimp, mark that under **Other/Unknown** along with the time.)

Note: enter all visits for a burrow in a single row of this section.

Burrow Notes: Notes can be added to the bottom of this page. Be sure to note the Burrow ID.