**Field Notes**

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**Introduction**

These are notes about our work in the field 13 August – 9 September 2013. The purpose of these field notes are to serve as an error log for persons using the data from the migration study. Due to weather conditions, technical failure, and human error, there are some minor issues with the data that a downstream user should be aware of. The tables indicate the number of samples for each site and data type that were actually recorded.

**Point counts, Focal observations**

* On August 30, 2013 we could not go to Coal Pit (CP) patch and take the data on the morning shift due to rain. We went in the afternoon to do Coal Pit (CP) and Saulsbury Trail (SB) sites.
* On August 27, we did not do the afternoon shift for Onion saddle 1 and Onion saddle 2 because we were doing nectar production for some plants.
* On August 31 we did Saulsbury Trail (SB) and Mormon Ridge (MR) in the morning, and we complete the Mormon Ridge patch in the afternoon.
* On September 9 and 10, we could not take the data at the four sites: Long Park (LP), Turkey Creek (TC), Onion Saddle 1 (OS1) and Onion Saddle 2 (OS2) because of heavy rain.

The total number of sampling periods at each site:

|  |  |  |
| --- | --- | --- |
| **Sites** | **Morning** | **Afternoon** |
| Coal pit (CP) | 3 | 4 |
| Saulsbury trail (SB) | 4 | 3 |
| Mormon ridge (MR) | 4 | 3 |
| Onion saddle 1 (OS1) | 3 | 2 |
| Onion saddle 2 (OS2) | 3 | 2 |
| Long park (LP) | 3 | 3 |
| Turkey Creek (TC) | 3 | 3 |

**Floral census transect**

* On September 9 and 10, we did not take these data for Long Park, Turkey Creek, Onion Saddle 1 and Onion Saddle 2 due the rain.

The total number of sampling periods at each site:

|  |  |
| --- | --- |
| **Sites** | **Replicates** |
| Coal pit | 3 |
| Saulsbury trail | 4 |
| Mormon ridge | 4 |
| Onion saddle 1 | 3 |
| Onion saddle 2 | 3 |
| Long park | 3 |
| Turkey creek | 3 |

**Floral census and phenology within the point (30m radius)**

* On September 9 and 10, we did not take detailed floral census data for Long Park, Turkey Creek, Onion Saddle 1 and Onion Saddle 2 due the rain.
  + We counted buds, fruits, and flowers for the species at each site.
  + Due to heavy rain, we did not count the number of flowers of *Ipomoea*, as they remained a relatively small, but diffuse, resource at these 4 sites.
  + We did not count flowering plant individuals. We assumed that the number of individuals would be relatively unchanged from week 3, and recorded this number in the database, with a note indicating our assumption.
  + At Long Park (LP), we were only able to get a subsample for the phenology of *Delphinium parishii* and *Mertensia fransciscana*, because the rainfall was so heavy that writing on datasheets became nearly impossible.

The total number of sampling periods at each site:

|  |  |
| --- | --- |
| **Sites** | **Replicates** |
| Coal pit | 4 |
| Saulsbury trail | 4 |
| Mormon ridge | 4 |
| Onion saddle 1 | 4 |
| Onion saddle 2 | 4 |
| Long park | 4\* |
| Turkey creek | 4 |

\* indicates that one of the periods

represents only a partial phenology sample

**Standing Crop**

* On August 26, we did not take standing crop data at Turkey Creek because there were very few flowers of any species (*Mimulus cardinalis, Mertensia franciscana,* and *Delphinium parishii*)
* On August 30 we could not go to Coal Pit (CP) patch and take standing crop data in the morning due to rain.
* On September 5, we did not take standing crop data at Saulsbury Trail because there were very few flowers of any species (*Bouvardia ternifolia*).
* On September 9 and 10, we did not take standing crop data for Long Park, Turkey Creek, Onion Saddle 1 and Onion Saddle 2 due to heavy rain.
* Nectar production data is stored in this dataset with a flag indicating such. Some species were very difficult to obtain nectar from, and the data should be used with care (especially, *Delphinium parishii, Mertensia franciscana,* and *Ipomoea hederacea*).

The total number of sampling periods at each site:

|  |  |
| --- | --- |
| **Sites** | **Replicates** |
| Coal pit | 3 |
| Saulsbury trail | 3 |
| Mormon ridge | 4 |
| Onion saddle 1 | 3 |
| Onion saddle 2 | 3 |
| Long park | 3 |
| Turkey creek | 2 |

**Audio Monitor Data**

This table describes the potential missing data in the audio recording dataset from our fieldwork. We were unaware that the data is not directly recorded to the SD card, and that incorrectly aborting a recording in the middle of the of a session results in zero data rather than truncated data. “While the song meter is recording, you can press the “Back” or “Wake/Exit” to abort the recording in progress and enter the start-up screen.” (Song Meter Manual, page 46). We discovered that if the “Wake/Exit” button is NOT pressed, NO data is recorded from the current session. Below is a table showing the dates that each site was visited, when we should have had corresponding human observations with passive audio data. Where the column *Recording error?* says OK, the data seems to be intact. Where it says error, the last datafile for that date is 0 bytes. The *notes* column indicates where the error was due to another reason (in the first week we were unaware of problems reformatting the SD cards) or where the data needs to be examined more closely to determine if it is intact, or not. These dates primarily correspond to morning samples, except in the case of CP and SB on 8/30, because we were rained out in the morning.

|  |  |  |  |
| --- | --- | --- | --- |
| **Site** | **Month/Day** | **Recording error** | **Notes** |
| CP | 08/17 | OK |  |
| CP | 08/23 | OK |  |
| CP | 08/30 | Error |  |
| CP | 09/06 | Error |  |
| SB | 08/16 | OK |  |
| SB | 08/22 | OK |  |
| SB | 08/30 | Error |  |
| SB | 09/05 | Error |  |
| MR | 08/16 | OK |  |
| MR | 08/22 | Error |  |
| MR | 09/05 | Error |  |
| OS1 | 08/18 | OK |  |
| OS1 | 08/27 | Error | Ran out of batteries/memory? |
| OS1 | 09/01 | Error |  |
| OS1 | 09/09 | Error |  |
| OS2 | 08/18 | Error | Need to check |
| OS2 | 08/27 | Error | Ran out of batteries/memory? |
| OS2 | 09/01 | Error |  |
| OS2 | 09/09 | Error |  |
| LP | 08/19 | Error | Need to check |
| LP | 08/26 | OK |  |
| LP | 09/02 | Error |  |
| LP | 09/09 | OK |  |
| TC | 08/19 | Error | Need to check |
| TC | 08/26 | OK |  |
| TC | 09/02 | Error |  |
| TC | 09/09 | OK |  |