RMBL 2022 Smith lab leaf physiology field work – January 2023 update

**Location**

* 5 sites run by Brian Enquist’s lab: Almont, CBT, Road, Pfeiler, Painterboy, and Cinnamon.
* 3 sites run by Aimee Classen’s lab: Almont, Gothic, Cinnamon.
* Aimee’s sites at Almont and Cinnamon had warming chambers within plots, thus at these two sites we measured within and outside chambers (i.e. warmed vs. control).

**Notes on data files/metadata info**

* Column titled ‘rep’ refers to biological replicate. Generally 3 reps were measured per species at each site, though 4th or 5th replicates were occasionally measured to replace any previous failed reps.
* At the Almont Enquist site, we measured 3 pseudo-replicates (i.e. individual leaves) for each biological replicate (i.e. each individual plant). Thus, reps were recorded as two-digit numbers where the first digit corresponded to the biological rep, and the second digit corresponded to the pseudo-rep (e.g. rep 23 of species ‘arrow’ is the 3rd leaf measured on the 2nd individual of that species).
* Column titled ‘licor’ denotes the name of the Licor 6800 machine used for each measurement (gib – Gibson; stan – Stan; oz – Ozzie).
* Column titled ‘warming’ denotes whether measurement was taken in a warmed plot or control (‘amb’) plot – this only applies to the Aimee’s sites at Almont and Cinnamon.
* Column titled ‘plot’ applies only to Aimee’s sites at Almont and Cinnamon, specifies identity of specific warming or ambient plot measured in.

**2022 RMBL sites**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Site name | latitude | longitude | elevation (m) | Date/s visited |
| Almont (Enquist) | 38.654554 | -106.860899 | 2475 | 06/24, 06/25 |
| Almont (Aimee) | 38.714482 | -106.821469 | 2770 | 07/07, 07/18 |
| CBT | 38.882313 | -106.98022 | 2710 | 07/08, 07/11 |
| Road | 38.896959 | -106.979222 | 2815 | 07/09, 07/11 |
| Gothic | 38.980957 | -107.005164 | 2896 | 07/10, 07/11 |
| Pfeiler | 38.960884 | -107.031621 | 3155 | 07/10, 07/11 |
| Painterboy | 38.969116 | -107.041001 | 3380 | 07/08 |
| Cinnamon | 38.991435 | -107.066237 | 3463 | 07/09, 07/12, 07/14, 07/19 |

**Species list**

|  |  |
| --- | --- |
| Field code | Species |
|  |  |
| achmil | *Achillea millefolium* |
| arnhar/fuzzy | *Arnica mollis* |
| arrela | *Arrhenatherum elatius* |
| trident/tridentata/arttri | *Artemisia tridentata* |
| arrow/balsag | *Balsamorhiza sagittata* |
| castelleja/cassep | *Castilleja septentrionalis* |
| corcas | *Corydalis caseana* |
| delbar | *Delphinium barbeyi* |
| erygra | *Erythronium grandiflorum* |
| helqui | *Helianthella quinquenervis* |
| hersph | *Heracleum sphondylium* |
| hymhoo | *Hymenoxys hoopesii* |
| ligpor | *Ligustucum porteri* |
| lupbak | *Lupinus bakeri* |
| mercil | *Mertencia ciliata* |
| oxytropis/oxylam | *Oxytropis lambertii* |
| penn/pencae | *Penstemon caespitosus* |
| phlpra | *Phleum pratense* |
| poaalp | *Poa alpina* |
| poapra | *Poa pratensis* |
| potfru | *Potentilla fruticosa* |
| potgra | *Potentilla gracilis* |
| potpul | *Potentilla pulcherrima* |
| arby/purtri | *Purshia tridentata* |
| sencra/sen | *Senecio crassulus* |
| taroff | *Taraxacum officinale* |
| vercal | *Veratrum califernicum* |
| wyeamp | *Wyethia amplexicaulis* |