Report brainstorming

1. General specs
   1. Time axis for entire season, leave white space to the right of the data
   2. Try to get the overall summary on 2 pages
   3. Week is the most useful unit of time
   4. Sync week to the project week
2. Overall summary
   1. Overall project report (Data quality assessment)
      1. Figure of milkweeds measured per week so far
         1. Target line
      2. Milkweeds measured by student, ranked barplot (cumulative)
      3. Figure of mean time per milkweed observed (by week)
      4. Table of missing plants per week (list all plants previous week missing by student pair)
      5. Maps
         1. Where were monarchs this week, by stage?
            1. Animate these maps for the end-of-year report?
         2. Cumulative map of monarch numbers
      6. Phenology-ontogeny landscape
   2. Figures of milkweed population and growth
      1. Estimated total stem length by week
      2. Estimated total stem cross-sectional area by week
   3. Figures of monarch population and growth
      1. Stage counts by week, various formats for this
      2. Day of week plot (also generate most popular spring and summer Day Hour combination)
3. Individual reports
   1. General specifications
      1. Each individual report on a new page
      2. Try to keep each individual report to 1 page
      3. Use names, listed as name.1, name.2, name.2 to generate student reports. w/o trip report
      4. Observation time per plant(in future)
   2. Basic stats
      1. Total time in the field
      2. Total number of milkweeds observed
      3. Total number of monarchs observed (split by larvae and eggs)
      4. Mean time per milkweed
      5. Milkweeds assigned?
      6. Team member since and last observation
   3. Individual figures
      1. Figure of number of plants measured by week, separated by status, compared to target
      2. Figure of number of monarchs observed by week, separated by life stage
      3. ~~Figure of monarchs per plant observed, by week compared to weekly average~~
      4. ~~Figure of time per plant, by week compared to the weekly average~~
      5. Have two grid arrange’s (one for student and one for mean comparison – also use different figure conventions eg color, points no points , symbol)
      6. Figure of plantIDs by student by week
      7. Density / interval plot for time of observation

Milkweed status table (last 5 weeks as counts add total column)

Milkweeds observed by students (add eggs, larvae top 20)

Add dates to phenology ontogeny landscape

Mean cat length by week (next to plant size)

Map last week (tansect 2 by status – size and color)