

BIO 211 CURE DATA – Example filled-out data sheet for database submission

This is an example data sheet filled-out as if:

1. A group consisting of two students (John Smith and Lisa Simpson) had 8 experimental plants
 - a. The plants were of genotype COL70000 and SALK_99999C
 - b. Two of each genotype were grown in a high salt treatment and two of each genotype were grown in tap water
2. Three traits were measured at the first time point (1/1/13)
 - a. All sections of 211 measured rosette diameter (in millimeters)
 - b. John and Lisa's section measured number of rosette leaves as a class trait
 - c. John and Lisa chose number of flowers as their group trait to measure at the first time point
3. Four traits were measured at the second time point (2/15/13)
 - a. All sections of 211 measured fruit number
 - b. John and Lisa's section measured plant height as their class trait
 - c. John and Lisa chose to measure two traits as a group – the length of the third fruit and the total number of branches
4. Looking at the metadata sheet you will see that John and Lisa studiously filled in information correctly in all yellow highlighted cells (*as expected – would Lisa Simpson ever not follow directions correctly?*)
 - a. The traits “Number of rosette leaves,” “Plant height,” and “Total Number of Branches” already had codes designated (they are listed in the table on the instructions sheet).
 - b. John and Lisa had to come up with trait codes on their own for the other traits they measured (“Number of flowers,” and “length of third fruit”)
 - i. For both, they chose codes that were short but descriptive, didn't contain any spaces and did not begin with a number
 - c. John and Lisa also gave short but thorough descriptions of how they measured each trait in the second set of tables

**Looking at the data sheet now you will see that each row represents a single measurement from a single plant. They measured seven traits in 8 plants and thus have 56 rows of data.*

Spring 2013 BIO 211 CURE Metadata: cells highlighted in yellow must be filled out!

Step 1: Fill out the table below with information about the class traits and group trait(s) you measured at each timepoint. The handout on the unPAK website explains what information to include. (Note: not all groups will have a group trait 2 and group trait 4)

MEASUREMENTS AT 1ST TIMEPOINT			
TRAIT	TRAIT CODE	UNITS DESCRIPTION	UNIT CODE
<i>number of rosette leaves</i>	<i>rleafnum</i>	<i>individual leaves</i>	<i>individual leaves</i>
<i>number of flowers</i>	<i>flower_num</i>	<i>individual flowers</i>	<i>individual flowers</i>

MEASUREMENTS AT 2ND TIMEPOINT			
TRAIT	TRAIT CODE	UNITS DESCRIPTION	UNIT CODE
<i>plant height</i>	<i>height_snapshot</i>	<i>centimeters</i>	<i>cm</i>
<i>length of third fruit</i>	<i>thirdfruit_length</i>	<i>milimeters</i>	<i>mm</i>
<i>total number of branches</i>	<i>totalbranch_snapshot</i>	<i>individual branches</i>	<i>individual branches</i>

Step 2: Fill out the tables below with information detailing how you measured each trait.

MEASUREMENTS AT 1ST TIMEPOINT		
TRAIT	TRAIT CODE	DESCRIPTION OF MEASUREMENT TECHNIQUE
Rosette diameter	r diam_snapshot	measured the diameter at the widest point using a ruler
Class trait 1	rleafnum	counted the number of individual rosette leaves
Group trait 1	flower_num	counted the number of flowers (including buds, excluding fruits)

MEASUREMENTS AT 2ND TIMEPOINT		
TRAIT	TRAIT CODE	DESCRIPTION OF MEASUREMENT TECHNIQUE
Fruit number	fruitnum_snapshot	counted the number of fruits larger than 5mm in length
Class trait 2	height_snapshot	measured the height of the main branch using a ruler
Group trait 3	thirdfruit_length	measured the length of the third fruit (counted from the base of the plant up) using a ruler
Group trait 4	totalbranch_snapshot	Counted the total number of branches (not counting the main stem)

