

<b>EPI dogs data logging script Help</b>	Rev2 11/7/2022
Why do it?	I wanted a utility for recording and displaying all of the variables related to my dogs EPI so I could keep track of changes to treatment and easily see the effect they had on stool and weight. I found logging on paper tedious and I wanted an easier way to spot results which required a graph.
Why Google sheets?	I am more experienced with Microsoft Excel or Access, but google sheets builds in the ability to share the data across multiple platforms and users. This means anyone in the family can view it, enter the data, and can display it at the vet's office or anywhere. It's also free. There are some usage maximums for the free version but I have yet to reach any of them.
Running on android?	This Works but not well. The Google sheets app does not support running scripts. To run on android you need to use your browser to log onto google sheets and then switch your browser to "Desktop Mode" under the browser settings. This will allow you to use the scripts, although sheets will still not work the same as on a desktop. Entering data may require multiple tries or actually deleting an entry before you can place a new one. The graphs don't let you highlight a parameter and view individual data points. In short a PC works much better. That said you can still take your tablet or smart phone and display for your vet.
Why not a stand alone app?	A spreadsheet allows easy direct viewing and editing of data. It also requires minimal programming time and ability.
<b>How to install it?</b>	
	Set up a google account if you don't already have one.
	Install google drive. This will give you free cloud storage so the data can be shared across devices and any users you give access to your drive.
	Send your email address to someone with a copy. They will give you access to the folder with the files. and send you a link, Alternately they can go to File>share>share with others> copy link and give rights to anyone with the link. If you look at the format of the link you used to download this, you can use the /copy switch to give them rights to make their own copy.
	Open the shared sheet and select make a copy from the sheets menu. Then move the copy to your own google drive.
	Open the sheets to the "Combined" sheet.
	In row two change the names to the ingredients you are using in your food. Edit line two for any meal ingredient names you want to track.
	You can erase any existing data on "combined" after the first two rows.
<b>How to use it?</b>	
The interface	There are no real dialogs. Everything is done in the worksheets. This means the parts of the dialog can be edited, moved or deleted accidentally. This will result in the scripts not being able to find the data to place into the Combined data sheet. the places to enter data are shaded. Since most values do not change for EPI, the

	"dialogs" retain the last values entered.
The menu	The top menu will have a new "Epi dogs" entry added. Under this are selections for adding Meals, Weight, B12 injections or Bowel Movements. A final option allows viewing a page to filter and graph the data.
Add meal	This sheet has a "dialogue" for adding the information about the meal.
	Enter the date by double clicking the date field to bring up a calendar. It's best to use the "enter" key before hitting save. Google will sometimes not make the entry if you don't. I've added code to get rid of the problem but I've still seen it happen on occasion. If the "last entered time" does not update, your entry was not saved to the combined file.
	Enter the time. There is usually no need to be too precise so entries like "1 AM" are accepted and will Automatically be converted to "1:00 AM"
	Enter the ingredient quantities. See "combined sheet" under setup to change labels for the ingredients.
	Enter any additional notes such as activation time, when a label has been change from one ingredient to another, change of product brand, or anything new in the meal preparation.
	"Save" will open the combined sheet and add the information to the bottom.
Add Movement	This sheet has a "dialogue" for adding the information about the bowel Movements.
	The consistency is entered as a number from the chart to the right. Decimals are supported so if you can't decide between a 5 or a 6 you can place a 5.5.
	The volume is entered as a number from 1 to 4.
	notes can be used to reflect changes in color, presence of mucous or other information.
	Save will open the combined sheet and add the information to the bottom.
Add Weight	Weights can be logged here. Note that the weight you enter will display the number divided by 10 below the dialog. to display all the the information on the same graph they need a common scale. Displaying the weight for an 80 lb dog results in the graph displaying 1 to 80. In this case displaying 1/4 tsp to 3/4 tsp entries in the same graph results in a imperceptible flat line at the bottom. Dividing the weight by 10 allows the display to be 1 to 8 making the small quantity items to show up.
B12	Dates for B12 injections can be added here. B12 capsules are entered as part of the meal.
Make Graph	"Make graph" will let you filter and graph out the data.
	The filtering is done by hiding files in the Combined sheet. This allows Google sheets will automatically exclude the hidden data from graphs. This means any graph you make will automatically update when filtered here.
	Enter the date range that you want to filter.
	The filter dates and print notes button will hide all entries outside of the range and the graphs will update. If the note fields are checked they will be printed to the right.
	The items you want to appear in the graph can be checked.
	press the "update graph" button and the unchecked filters will have their columns hidden in the combined sheet and the graph is updated. By default graphs ignore date that is in hidden rows and columns so this effect all graphs on all of the sheets.
	The "sort and unfilter" button unhides all fields and resorts all of the data on the

	Combined sheet.
Backups	The backup sheet has copies of all of the original "dialogue". The script code is written to look for data in specific cells so accidental editing of a dialog can result in the scripts being out of sync with the data. If this occurs a dialog can be copied back to the appropriate page.
	Graphs can be hard to create from scratch. Starting with a copy of the backup graph and modifying it is the best way to make your own custom graphs.
Custom Graphs	You can copy existing graphs and place them anywhere in the project. When modifying graphs be sure to have data in all fields or those columns will not show up for editing. You should also run the "unhide and sort" so there are no hidden columns.
Security	The scripts uses google functions that require access to your google account. You will be prompted to allow the script to have access. If you don't want to do this the script won't work. If you don't trust it you could create a seperate google account and drive for the sheet so it would have nothing outside of the EPI sheet to access. Also the coding is done in a script that is viewable and editable by you. You ( or someone who has taken a coding class in high school) can view the code yourself to see that it is not accessing. It's not very long and is not complicated.
<b>Revision 2 changes</b>	
Graphs	There is a added check for meal or daily totals to be graphed. You you want to see the amounts per meal, uncheck it. If you want the amounts per day, check it. After using this box you need to use the "filter dates button" to hide the appropriate meal columns. To support the totals, several new columns have been added to the right of the combined sheet.If you want to simultaneously show meal and daily values you need to manually go to the combined sheet and unhide columns.
Meal Entry	The last 5 meals entered will show up to the right of the dialog. Using the copy button underneath a column with copy that data into the form and you just need to enter the date and time.
Updating from revision 1	Copy the revision 2 spreadsheet to your google account using the link.
	Open your original version.
	Open the combined sheet
	Open you new version 2 copy in a different browser window
	Open the combined sheet
	Copy columns A to V in the old version (select and CNTL-C)
	Paste to A1 (select 1A and CTRL-V) in the new version
	Verify your data is working in the new version and you can delete the old version.