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M3

	A	B	C	D	E	F	G	H		K	L	M	
1			STRONGYLE										General Comments
2	Date	Sample ID	Strongyle TYPE	EPG	% Coproculture	Strongyle TYPE EPG	DL %	DLC	Type	Remarks	DLC	Test Type	EXAMPLE: Lab Report Number / Weather Conditions - Dry/ Dictyocaulus LPG / More Info is Better
3													
4													
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To discontinue the function of the column headings being visible in a frozen pane as you accumulate reports and data, or for screen sharing or pictures for presentations, follow the excel function below:

1. Click on (View)
2. Go to (Freeze Panes)
3. Click on (Unfreeze Panes) and your document will show all entries as you scroll up and down.

To resume the convenience of the column titles being visible:

1. Repeat the process starting with clicking on (View)
2. Click on (Freeze Panes) and your back in biz.

Sheet1 LOOKUP

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AutoSumFillClear

Editing

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Analyze Data

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C3

	A	B	C	D	E
1			STRONGY		
2	Date	Sample ID	Strongyle TYPE	EPG	% Coproculture
3					
4			Haemonchus		
5			Ostertagia		
6			Cooperia		
7			Oesophagostomum		
8			Sample		
9			Trichuris - Calf		
			Trichuris - Adult		
			Trichostrongylus		

Sheet1

LOOKUP

Provided dropdown menu function for Strongyle Type that are associated with the EPG number reported.

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InsertDeleteFormatCells

AutoSumFillClearSort & FilterFind & SelectAnalyze Data

Add-insAdd-ins

	H	I	J	K
1	Other Parasites			
2	DLC	Type	Remarks	DLC
3				
4		Eimeria Dictyocaulus Trichuris Toxocara Vitulorum Nematodirus battus Capillaria Monezia (Tape Worm) Fasciola Hepatica (Liver Fluke) Nematodirus Fasciola Rumen Fluke Strongyloides Sample		
5				
6				
7				
8				

Dropdown menu function provided for parasites listed as Other Parasites. Click on the arrow provided, then click on the parasite matching the identified parasite in the report.

	I	J	K	L
1	Other Parasites			Test Ty
2	Type	Remarks	DLC	
3	Eimeria	Present Large numbers Very Large numbers None Seen		
4				
5				
6	The typical reference to Parasites in the 'Other Parasites' category are listed in dropdown menu as shown here. Helpful Hint: Sometimes there is no comments and just a listing of various parasites other than Strongyles. That reference is the same as (Present) for your TRACKER TOOL entry.			
7				
8				
9				

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Analysis

Add-ins

Add-ins

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	I	J	K	L
1	Other Parasites			Test Ty
2	Type	Remarks	DLC	
3	Eimeria	Present	LOW	
4				
5				
6	Once the parasite and remark are selected from the dropdown menu, your TRACKER TOOL will reveal the Disease Level Concern.			
7	Important Note: Disease Level Concern (DLC) is an unofficial benchmark infection level of specific parasites from lab observations over time that are associated with disease in large and small grazers.			
8				
9				

Sheet1LOOKUP

We all like a good report after treatment like 0.00 EPG . The TRACKER TOOL equations will not recognize zero. So –

1. For reports showing 0.00 EPG, first choose (Sample) in the dropdown menu.
2. Then enter (0.001) in the EPG column.
3. The result will be a 0.00 EPG for 'Sample', with a DLC of NONE as shown below left to right.

	A	B	C	D	E
1			STRONGYLE		
2	Date	Sample ID	Strongyle TYPE	EPG	% Coproculture
3	9/17/2023	sample		0.001	
4					
5					
6					
7					
8					
9					
10					

	A	B	C	D	E	F	G	H
1			STRONGYLE					
2	Date	Sample ID	Strongyle TYPE	EPG	% Coproculture	Strongyle TYPE EPG	DL %	DLC
3			Sample	0.00				NONE
4								
5								
6								
7								
8								
9								
10								
11								

TXBP TIPS:

- The Diagnostic Parasitology Lab TAMU will typically NOT perform a Coproculture when an EPG falls below 10, unless it's for research, or requested by a customer. All Gastrointestinal Nematode (GIN) EPG's below 10 would be a DLC (NONE) except for *Ostertagia ostertagi*.
- If you are battling Ostertagiosis, or disease level Ostertagia, then request a Coproculture and the TRACKER TOOL will calculate and report the DLC. (OR) use recent (2-3 WEEKS) previous Coproculture report percentages to see where you are at.

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	K	L	M
1		Test Type	General Comments EXAMPLE: Lab Report Number / Weather Conditions - Dry/Wet / Herd BCS / Dictyocaulus LPG / More Info is Better • There is no such thing as too much information!
2	DLC		
3			
4		Pre-Treatment Post Treatment Management Check	
5			
6			
7			
8			
9			
10			
11			
12			
13			

• **Test Type** is a very important entry. This entry will show which deworming drug worked, how well it worked, and which Strongyle type of GIN it was most effective on.

• **Management Check** is intended to do just that. It is independent of treatment and flags NO TREATMENT when the DLC is at low, or none.

Sheet1

LOOKUP

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Insert Delete Format Cells

AutoSum Fill Clear Editing

Sort & Filter Find & Select Analysis Add-ins

Comments Share

M9

	H	I	J	K	L
1		Other Parasites			Test Type
2	DLC	Type	Remarks	DLC	
3		Sample	None Seen	NONE	
4					
5					
6					
7					
8					
9					
10					
11					
12					

Sheet1 LOOKUP

When your lab report does not list anything in the 'Other Parasites' section, choose **(Sample)** from the dropdown menu under **(Type)** and choose **(None Seen)** from the dropdown menu and the TRACKER TOOL will self populate a DLC of **(NONE)**.

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Unshare Workbook

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	A	B	C	D	E	F	G	H	I	J	K	
1			STRONGYLE						Other Parasites			
2	Date	Sample ID	Strongyle TYPE	EPG	% Coproculture	Strongyle TYPE EPG	DL %	DLC	Type	Remarks	DLC	
3	9/25/2023	TEST	Haemonchus	150.00	100.00%	150.00	100.00%	HIGH	Eimeria	Large numbers	HIGH	
4	9/25/2023	TEST	Ostertagia	20.00	100.00%	20.00	100.00%	HIGH	Dictyocaulus	Present	HIGH	
5	9/25/2023	TEST	Cooperia	500.00	100.00%	500.00	100.00%	HIGH	Trichuris	Large numbers	HIGH	
6	9/25/2023	TEST	Oesophagostomum	50.00	100.00%	50.00	100.00%	HIGH	Toxocara Vitulorum	Present	XHIGH	
7	9/25/2023	TEST	Sample	0.00	100.00%	0.00	0.01%	NONE	Nematodirus battus	Present	HIGH	
8	9/25/2023	TEST	Trichuris - Calf	50.00	100.00%	50.00	100.00%	HIGH	Capillaria	Large numbers	HIGH	
9	9/25/2023	TEST	Trichuris - Adult	25.00	100.00%	25.00	100.00%	HIGH	Monezia (Tape Worm)	Very Large numbers	HIGH	
10	9/25/2023	TEST	Trichostongylus	350.00	100.00%	350.00	100.00%	HIGH	Fasciola Hepatica (Liver Fluke)	Present	HIGH	
11									Nematodirus	Large numbers	HIGH	
12									Rumen Fluke	Very Large numbers	HIGH	
13									Strongyloides	Present	HIGH	
14									Sample	None Seen	NONE	
15												
16												
17												
18												
19												
20												
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Sheet1LOOKUP

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DLC: UNOFFICIAL BENCHMARK EPG NUMBERS & REMARKS FOR DISEASE LEVEL CONCERN

- The numbers shown on this TRACKER TOOL are NOT official, nor are they supported by published materials. They are a product of observation over time at the Diagnostic Parasitology Lab TAMU that are known to be associated with disease in large and small grazers.
- These benchmark, or threshold numbers are intended to help stewards of bison herds understand when to organize treatment, and most important of all, when **NOT TO TREAT**. The excel rules and equations applied are accurate.
- There is much about the pathology of exotic parasites in native North American bison that is not yet understood.
- The numbers used in the TRACKER TOOL will serve herd management well.

	I	J	K	L
1	Other Parasites			Test Type
2	Type	Remarks	DLC	
3	Dictyocaulus	None Seen	NONE	
4	Fasciola Hepatica (Liver Fluke)	None Seen	NONE	
5	Sample	None Seen	NONE	
6				
7				
8				
9				
10				

Two of the parasites in the 'Other Parasites' category require specialized tests at the lab.

- Baermann Test: Dictyocaulus (Lung Worm)
- Fluke Finder Test: Fasciola Hepatica (Liver Fluke)

The TRACKER TOOL is formatted to report a DLC of NONE by choosing None Seen in the dropdown for those parasites.

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TXBP TIP: It helps a lot to shade rows and separate tests. This makes it visually easier when using the TRACKER TOOL for reference and management.

Sheet1

LOOKUP

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