



Streptococcus equi subsp. zooepidemicus: Case Update

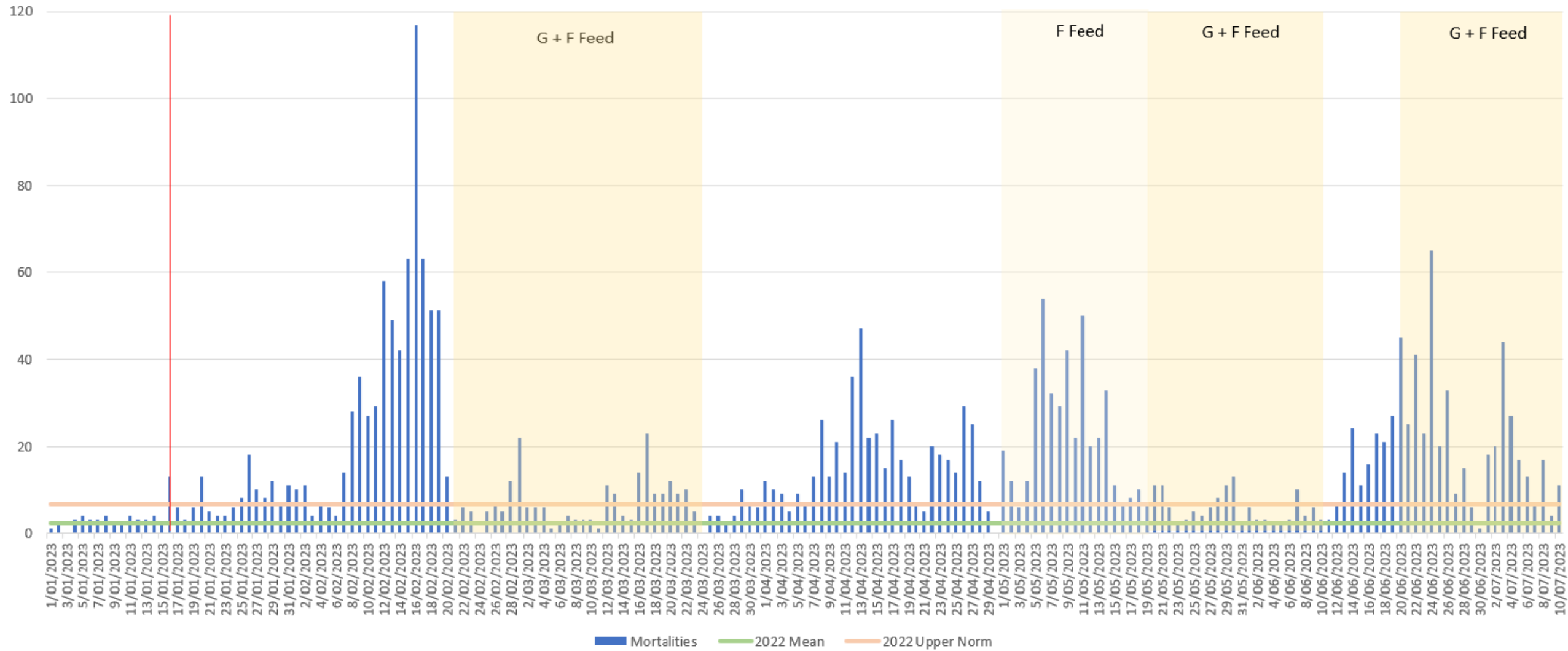
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Initial clinical picture

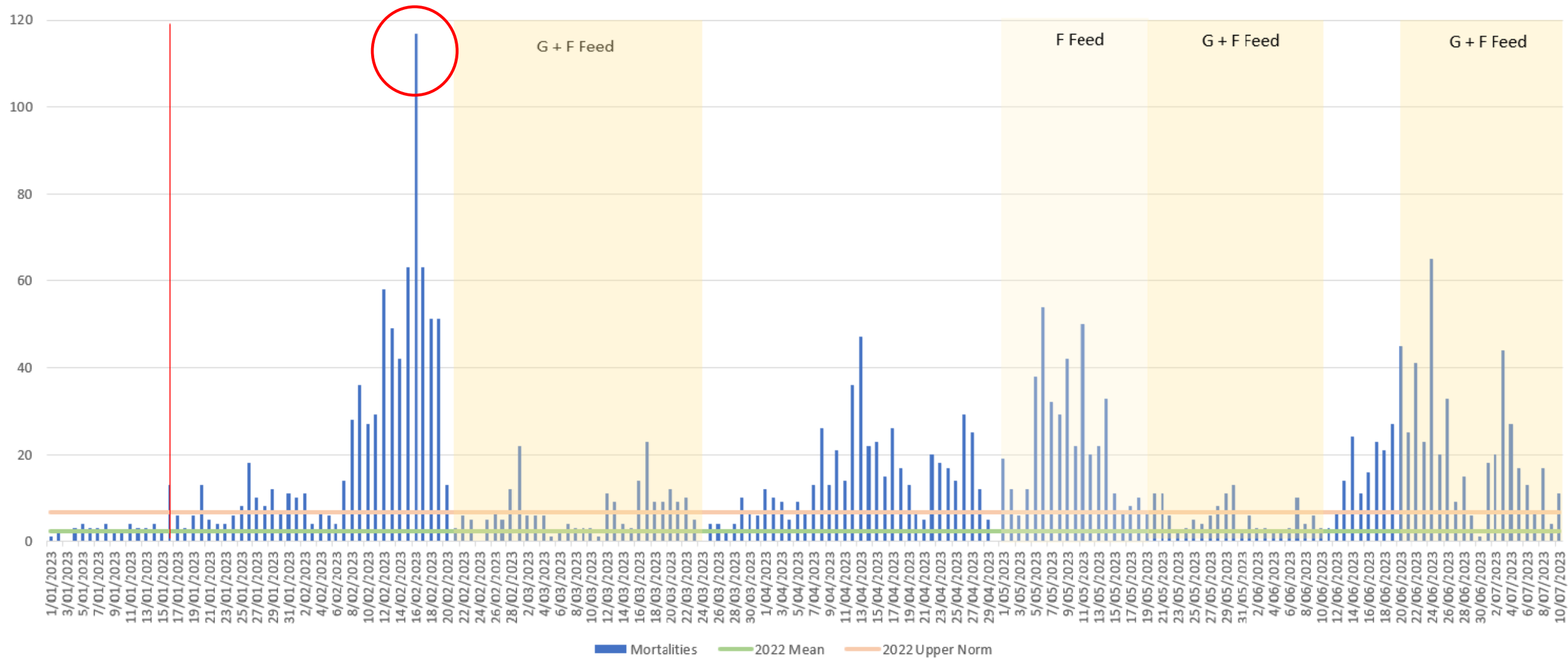
- High health status eco-shelter grower farm
 - *Negative: Mycoplasma, APP, Dysentery*
 - Complaint of increased mortalities in one shelter (18 to 19 weeks)
 - *Pigs noted to be lethargic and anorexic*
-
- Fluid filled lungs/interstitial pneumonia
 - Mild - moderate peritonitis
- +/- Tonsillitis, pleurisy, pericarditis, gastritis



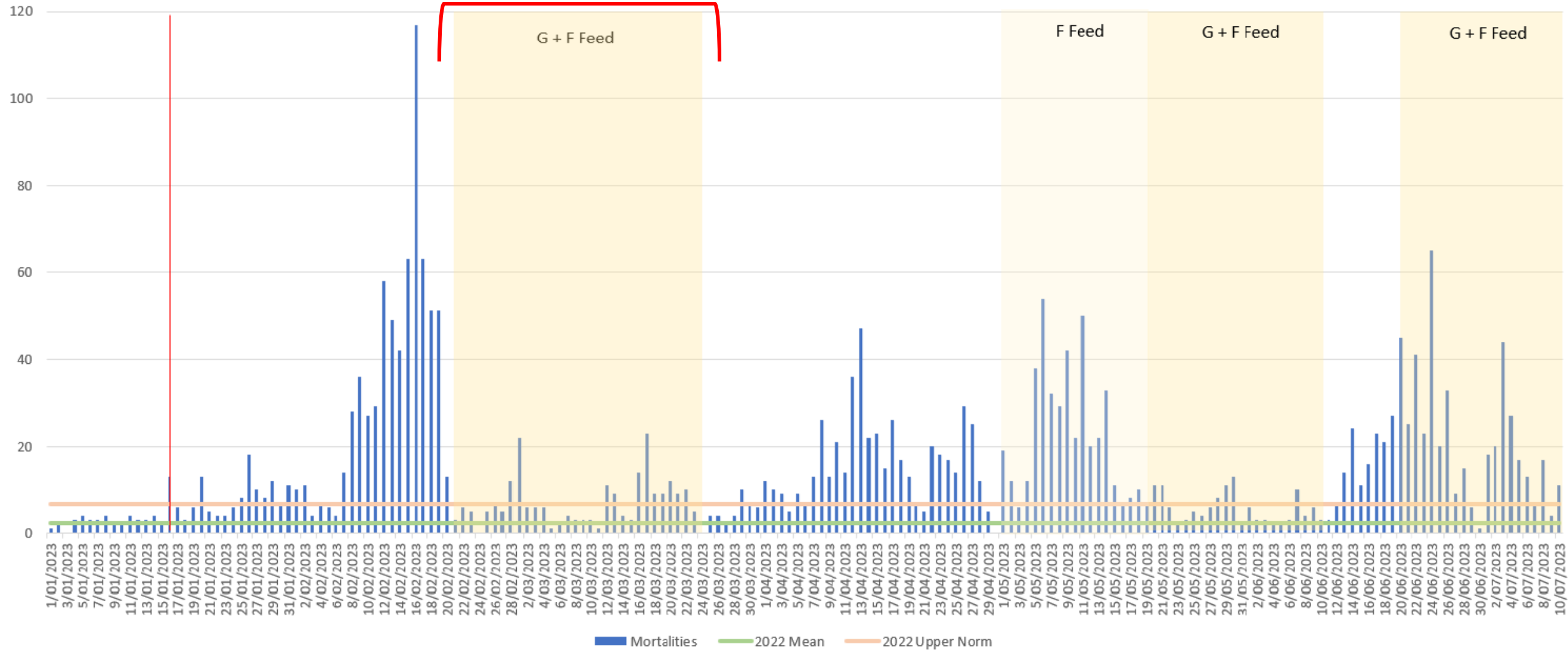
Farm Mortalities 2023



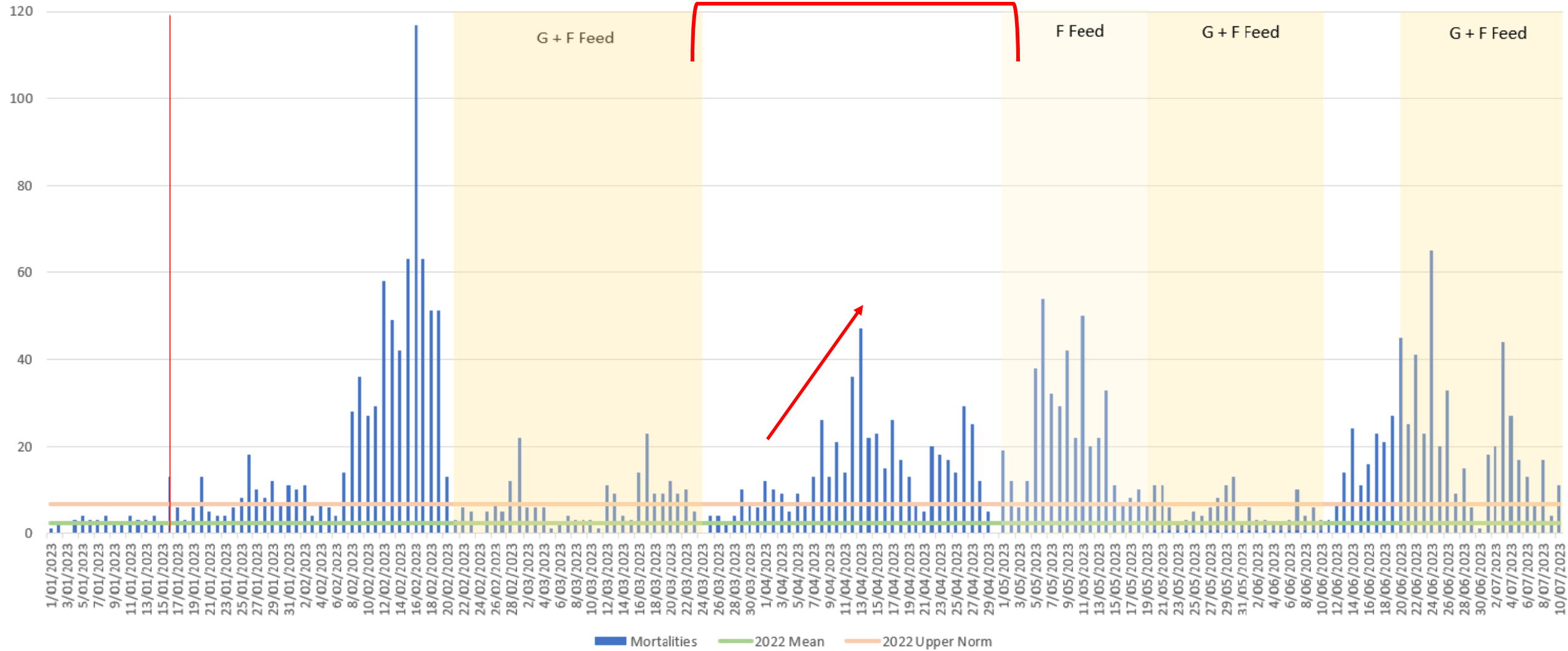
Farm Mortalities 2023



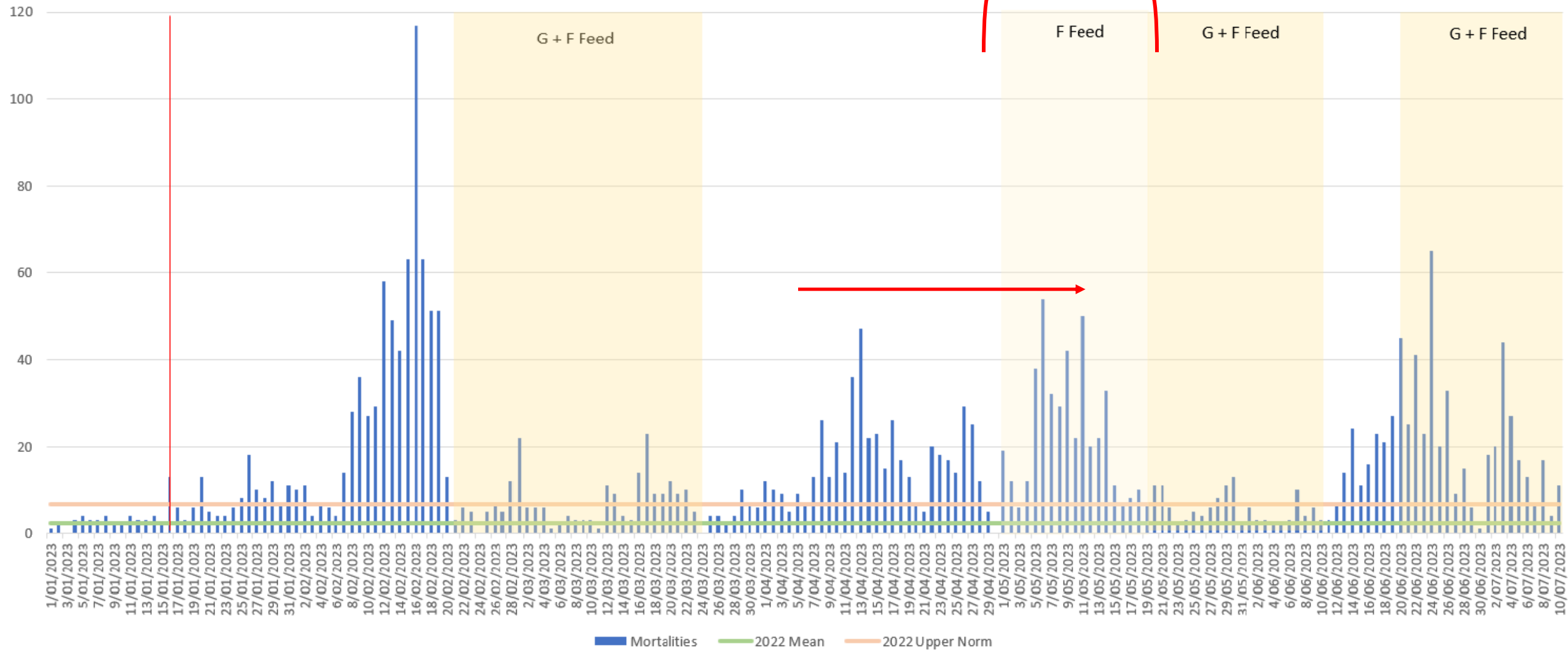
Farm Mortalities 2023



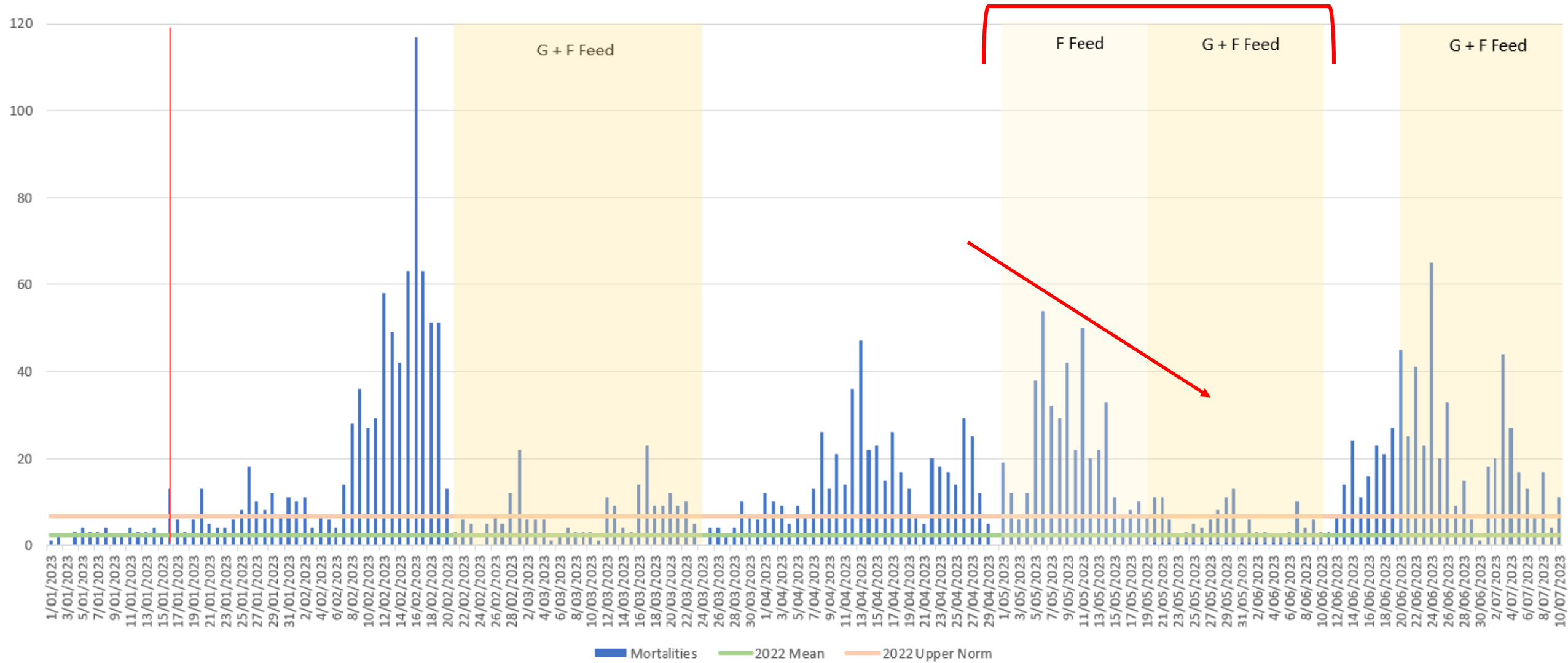
Farm Mortalities 2023



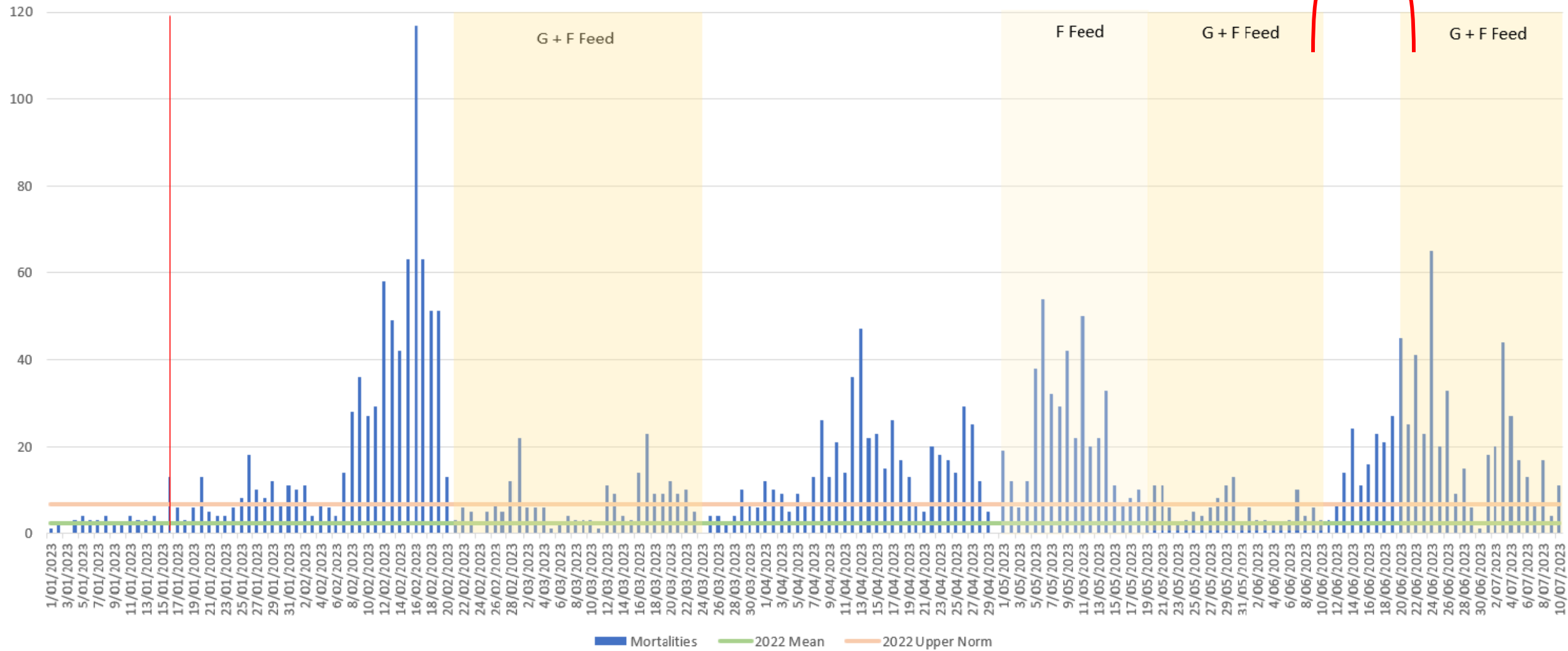
Farm Mortalities 2023



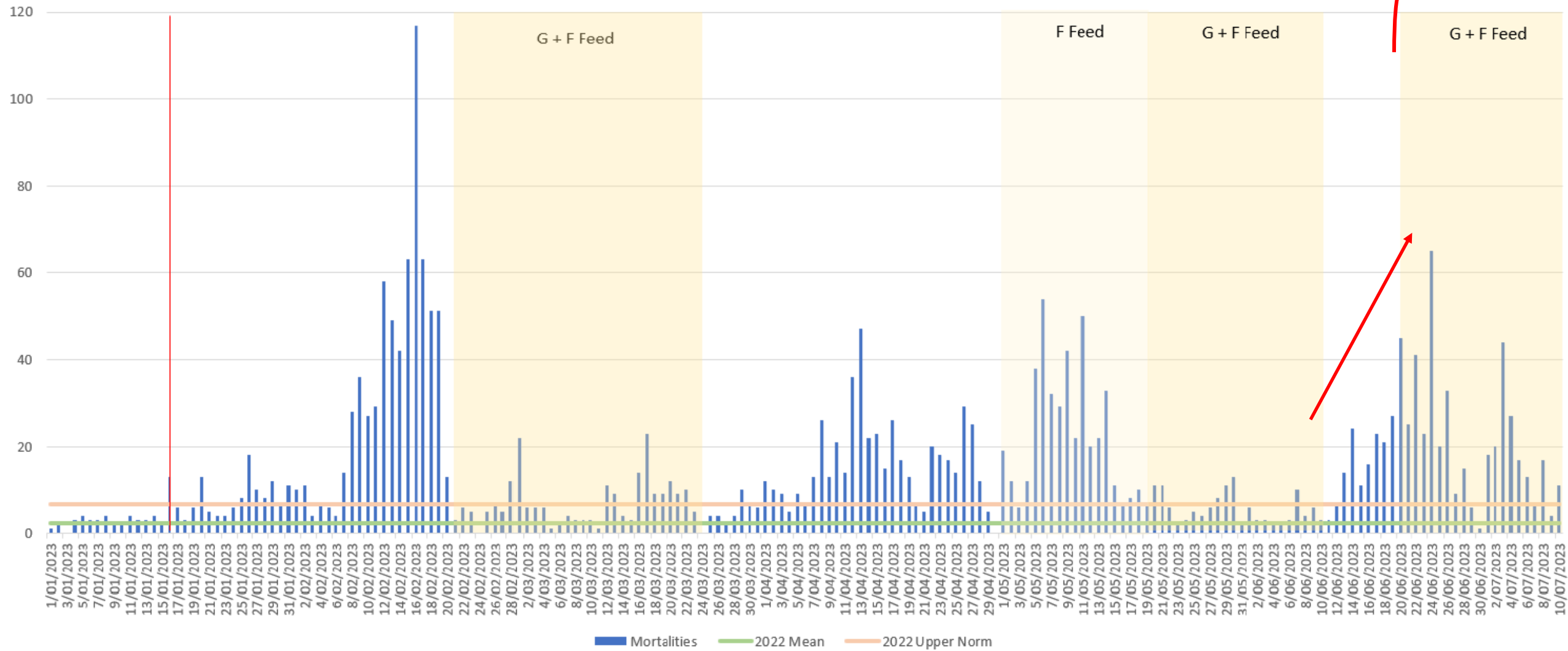
Farm Mortalities 2023



Farm Mortalities 2023



Farm Mortalities 2023



Management changes

- Pause on pig movement from **4 weeks** to **8 weeks**
- Reduced stocking density by **15%**
- Manual cleaning of spent bedding and pressure washing feed pads
- 'Whitewashing' – Calcium hydroxide

Necropsies performed

Date of collection	Tissue/sample collected	Result				Serotyping?
		Scanty	Light	Moderate	Heavy	
20/01/2023	Lungs (Pig 2)	X				ST194
	Tonsils (Pig 2)	X				
27/01/2023	Lungs (Pig 1)			X		ST194
	Lungs (Pig 2)			X		
9/02/2023	Spleen (Pig 1)				X	ST194
	Liver (Pig 1)			X		
	Lung (Pig 1)			X		
	Kidney (Pig 2)				X	
	Peritoneal swab (Pig 2)	X (2 colonies)				
	Peritoneal swab (Pig 3)				X	
	Brain (Pig 1)	X (2 colonies)				
	Brain (Pig 2)		X			
	Brain (Pig 3)			X		

14/02/2023	Liver (Pig 1)				X	No typing for these samples, but presumed ST194
	Liver (Pig 2)			X		
	Liver (Pig 3)				X	
	Liver (Pig 4)			X		
	Liver (Pig 5)		X			
	Tonsils (Pig 1)				X	
	Tonsils (Pig 2)				X	
	Tonsils (Pig 3)				X	
	Tonsils (Pig 4)				X	
	Tonsils (Pig 5)	Growth present, amount not recorded				
	Lung (Pig 1)			X		
	Lung (Pig 2)			X		
	Lung (Pig 3)				X	
	Lung (Pig 5)			X		
	Kidney (Pig 1)				X	
	Kidney (Pig 2)			X		
	Kidney (Pig 3)				X	
	Kidney (Pig 5)				X	
	Pleural fluid (Pig 3)				X	
	Pleural fluid (Pig 3)				X	
	Pleural fluid (Pig 5)		X			
	Brain swab (Pig 2)				X	
	Brain swab (Pig 3)				X	
	Brain swab (Pig 5)			X		

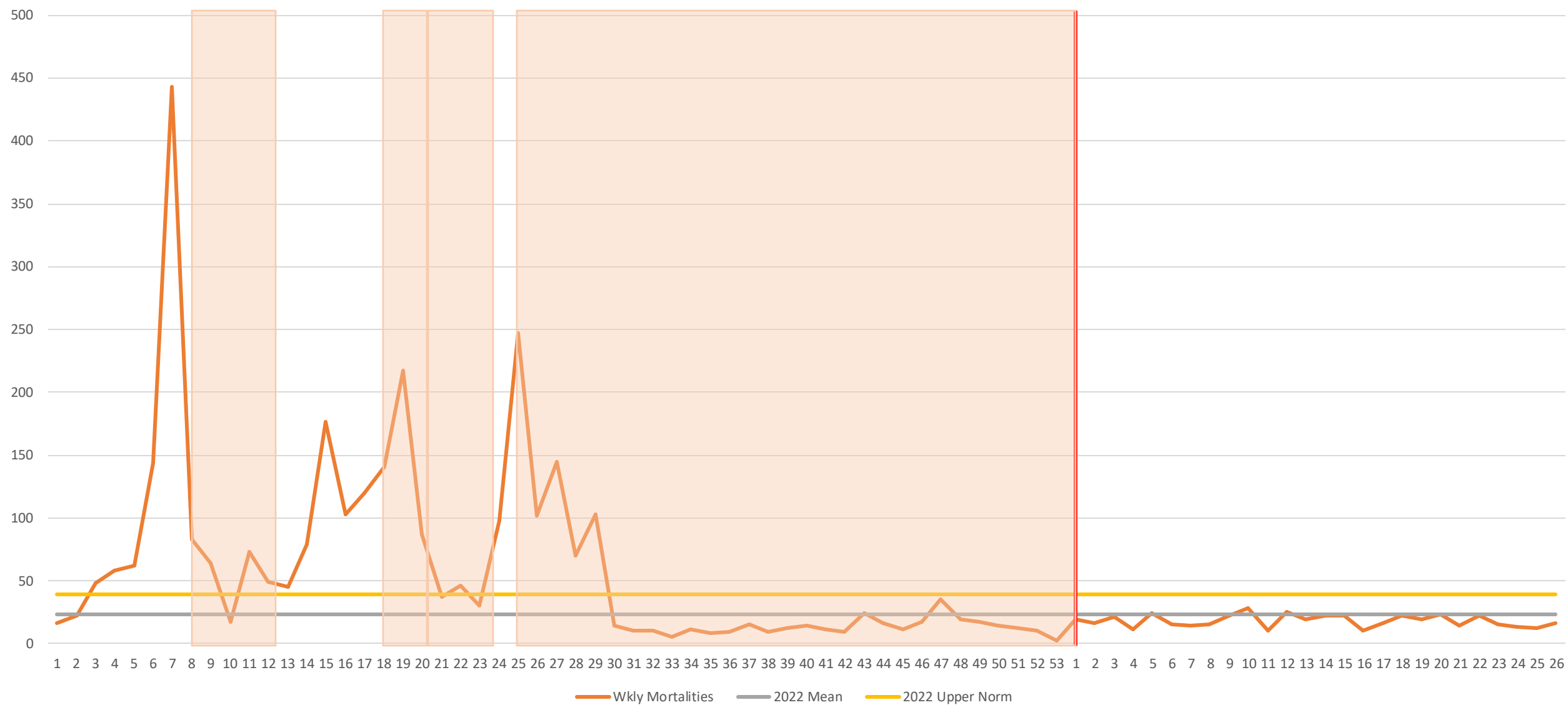
31/03/2023	Spleen (Pig 1)			X		
	Spleen (Pig 2)			X		
	Omentum (Pig 1)			X		
	Spleen swab (Pig 1)			X		
	Spleen swab (Pig 2)		X			
	Omentum swab (Pig 1)		X			
6/04/2023	Tonsil (ID B1)				X	
	Tonsil (ID C1)			X		
	Tonsil (ID C3)				X	
	Tonsil (ID C5)				X	
	Tonsil (ID B1b)				X	
	Lung (ID B1a)				X	
	Lung (ID B1b)				X	
	Lung (ID B1b)				X	
	Lung (ID C3)				X	
	Lung (ID C5)				X	
	Lymph Node (ID B1a)				X	
	Lymph Node (ID C1)	X (2 colonies)				
	Lymph Node (ID C3)				X	
	Liver (ID C3)			X		
	Liver (ID C5)				X	
	Heart (ID C1)				X	
	Spleen (ID B1a)				X	
	Spleen (ID B1b)				X	

Other sampling

Spec No	Spec ID	Spec Description	Routine culture	Strep.equi zooepidemicus
0001	AI Feces 1	Environmental Swab in Amies	no significant isolates	negative
0002	AI Feces 2	Environmental Swab in Amies	no significant isolates	negative
0003	AI Floor 1	Environmental Swab in Amies	no significant isolates	negative
0004	AI Floor 2	Environmental Swab in Amies	no significant isolates	negative

Spec No	Spec ID	Spec Description	Routine culture	Strep.equi zooepidemicus
0001	10	Tonsils	Significant growth	negative
0002	13	Tonsils	Significant growth	negative

Weekly Mortalities vs 2022 Mean
Feed med weeks 8-12, 21-23, 25-3



Thanks to
DPIRD
The farm
Apiam
Swine Team



Questions?

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