Getting Winter Ready

Teagasc/AHI Autumn Beef Walk



Proinnsias Creedon's Farm Barrathanaknock, Co. Cork | 2nd November 2023









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Proinnsias Creedon Introduction





Farm System

➢ Farming 33.31 ha, all owned

▶1 main block

- Calf & store to beef system
 - 2021: 31 calves & 59 yearlings
 - 2022: 50 calves & 15 yearlings
 - 2023: 55 calves & 14 yearlings
- >AAX & HEX Heifers

2023 Performance YTD

- > 50 heifers slaughtered
- > Average age: <u>25.6</u> months
- Carcass weight: <u>276</u> kg
- Carcass grade & fat: <u>O=3+</u>











PARASITE TESTS AND RESULTS



WHAT PARASITE TESTING IS AVAILABLE? Dung samples Blood tests Factory reports Post-mortem

What makes a good dung sample?

Fresh (warm) dung, tablespoon of dung per animal, sample 10-15 animals, get it to the lab/vet early in the week.

Speak to your vet for optimal testing protocols and timing.

FACTORY REPORTS									
Beef HealthCheck Beef HealthCheck Report									
TAG	SEX	AGE (mths)	CARCASE (kg)	LIVER SCORE	LUNG SCORE				
E 12 34567 8 0001	E	20	330	1	3				
IE 12 34567 8 0002	С	22	360	3/5	1				
E 12 34567 8 0003	D	40	400	2	1				
IE 12 34567 8 0004	В	44	500	1	1				
IE 12 34567 8 0005	E	19	340	1	2				
IE 12 34567 8 0006	С	20	350	1	4				
IF 12 34567 8 0007	D	56	410	4	1				

Beef HealthCheck collects and reports health outcomes to farmers. Access to reports available on ICBF website (desktop).

What do the scores mean?



WHAT CAN WE TEST ON A DUNG SAMPLE?						
GUT AND STOMACH WORMS Faecal egg count/ worm egg count Reports the number of eggs per gram of faeces e.g. 500 epg Cattle epg 0 200 400 600			To treat or not? Consider: - age group - risk of disease - history of problems - weather & time of			
Low Modera	ate	Severe	year			
			- monitoring			
WORMS CAN Check if your dose is working with a drench test DEVELOP - Do an egg count before and after dosing. RESISTANCE TO - Do an egg count before and after dosing. WORMERS (7 days later for LV, 14 days later for BZ or ML) LONGER WORK - The egg count should decrease between texts						
LUNGWORMCOCCCan be negative during the early stages of disease (animal coughing).Can s don't diffe coughing).Usually advise treatment if presentanimal treatment			DIA e oocysts (eggs) that ause disease ent species). st count is high and s clinical ill, ent might be			

needed.

LIVER AND RUMEN FLUKE

Different test to the egg count – must be requested. Usually reported as present/absent, if liver fluke is present advise treatment. Rumen fluke is often present – consider treatment only if other signs e.g. not thriving.











AGECLITZE AND FOOD DEVELOPMENT ACTION	PARA	SITE CONT	ROL AT HOUSING		
AI WORMERS WHITE YELLOW ((1-BZ) (2-LM) (3 LIVER FLUKE • Avoid grazing w • Treatment dependent depen	NTIPARASITICS FLUKICID CLEAR 3-ML) Tet areas in autum ending on life stag 12 weeks to deve	es BINATION ECTOPARACIDES	 MITES AND LICE Hairloss, extremely itchy, fail to thrive Housing ideal environment (warm and humid) Treat all in-contact animals May need two treatments due to eggs hatching (treatment doesn't kill eggs) Injectable products don't work well on biting lice 		
Three main types Those that target adult fluke only ✓May need a	of flukicide: Those that target juveniles from 6-8 weeks Delay	Those that target all stages ✓ Can give 2 weeks after	 STOMACH AND GUT WORMS Treat at beginning of housing if needed Ostertagia Type II – dormant worm, becomes a problem early spring. Treat with white/clear drench. 		
treatment over housing	weeks after housing	 weeks after housing ✓ Keep for sheep if possible (resistance is 	LUNGWORMHighly unpredictableSevere infection can lead to secondary pneumonia		
 RUMEN (STOMA) Can cause lack of clinical signs Only one active treatment, off lack 	CH) FLUKE of thrive, treat or ingredient availa abel use (Oxyclos	a concern) hly if able for zanide)	 COCCIDIA Problem at end of housing into spring/ early summer Preventative treatment possible Disinfect sheds if previous problem on farm (Kenocox, Interkokask, Neopredisan) 		









Сабазс

Lungworm



- Straight forward
- No known resistance
- No inhibited larvae to deal with
- > Older animals develop immunity
- Pre-housing dose with a mectin
- Lungs will be clean and healed on housing
- If product has enough persistence

could use as housing dose.

Ensure to use other classes of drugs during the grazing season to build immunity and avoid resistance

Ivermectins Cooperia – 14 days Ostertagi – 21 days

Ostertagi – 21 days Lungworm – 28 days

Doramectin - dectomax

Cooperia – 21 days Ostertagi – 35 days Lungworm – 35 days

Moxidectin -cydectin

Cooperia – 14 days Ostertagi – 35 days Lungworm – 42 days





Stomach Worms



test

Faecal Sample

	Only three classes of Drugs					
Class	Commo Name	on Chemical		Sample pro	oducts	
Benzimidazole	White BZ)	(1- Albendazo Fenbenda Oxfenben	Albendazole Fenbendazole Oxfenbendazole		Albex, Endospec, Tramazole Panacur, Zerofen, Fenben Oxfencare, Parafend, Worma	
Levamisole	Yellow (2–LV)	Levamiso	le	Levacide, Vermisole		
Macrocyclic Lactone	Clear (3 ML)	Ivermectin Doramectin Eprinomectin Moxidectin		Animec, Bimectin, Qualimec Dectomax Eprinex Cydectin		nec
		Resist	ance			
Anthelmintic class		No. farms tested	No. fa res	arms with istance	Prevalence resistance	of
Benzimidazole (1-BZ)		17		12	71%	
Levamisole (2-I	LV)	12		3	25%	Dre

Inhibited Ostertagi larvae – Levamisole not effective





















Liver Fluke Control ahime

Active ingredient	Sample product	Dose after cattle housed		Admin route	Withdrawal
Triclabendazole	Endofluke 10% Fasinex 240 Tribex 10%	2 weeks 2 weeks	Early immature, immature, adult fluke	Oral drench Oral drench Oral drench	56 days 56 days 56 days
	Cydecdectin Triclamox	6 weeks		Pour on	143 days
Closantel	Closamectin inj	7 weeks		Injection	49 days
	Closamectin Pour- on	7 weeks	lmmature, adult fluke	Pour-on	58 days (was 28 days)
	Solantel	7 weeks		Pour-on	63 days
	Flukiver 5% bovis	8 weeks		Injection	77 days
Rafoxanide	Ridafluke	7 weeks	Immature, Adult Fluke	Oral Drench	60 days
Nitroxynil	Trodax	8 weeks	lmmature, adult fluke	Injection	60 days
Albendazole	Albex 10% Endospec 10%	10 -12 weeks 10 -12weeks	Adult Fluke	Oral drench Oral drench	14 days 14 days
Clorsulon	Bi mectin plus Ivomec super	10 -12weeks 10 -12 weeks	Adult Fluke	Injection Injection	66 days 66 days
Oxyclozanide	Levafas Diamond Zanil	10- 12 weeks 10 -12 weeks	Adult Fluke	Oral Drench Oral Drench	28 days 13 days
	Rumenil	10-12 weeks	Adult fluke	Oral drench	13 days









Example: Beef HealthCheck reports on ICBF



imal Det	ails			Liver Results				Lung Results		
^	Date Of Birth ^	Age In Months 🔷 🔨	Home Bred A	Normal Liver 🔷	Fluke ^	Other Liver 🔷 🔨	Liver Abscess ^	Normal Lung 🔷 🔨	Pneumonia ^	Other Lung 🔷 🔨
31725	12-JAN-10	120	Y		Fluke Damaged			Normal		
72669	20-JAN-15	60	Y		Live Fluke			Normal		
32016	19-MAR-11	106	Y		Fluke Damaged			Normal		
63259	14-JAN-18	26	Y			Other		Normal		
83483	27-JAN-19	15	Y	Normal			Abscess	Normal		
11418	09-APR-07	161	Y		Fluke Damaged			Normal		
93518	19-MAR-19	18	Y		Fluke Damaged			Normal		
43513	28-FEB-19	19	Y			Other		Normal		
33198	06-FEB-18	33	Y			Other		Normal		











COSC CONTRACT AL	SC THORITY		Lice ahi				ahi	
		Extr	emely itch	y — c	does af	fect thrive		
Sucking lice - Burrow into skin and feed on blood Can use injection <u>or</u> pour - on					Biting N	; Lice - Feed c <mark>leed to use</mark>	on skin a Pour - (nd hair <mark>On</mark>
Parasite			Animal A	ge		Treatment		
Biting lice			All ages			Macrocyclic I	_actones	pour on
Feed on the skin sloughed skin ce	kin, hair and cells of the				Pyrethroids – spot on, endospec			
animal.						Does not kill eggs		
Sucking lice			Mainly young, first		Macrocyclic Lactones			
Feed on animals	s blo	od	grazing se	grazing season P		Does not kill eggs		
Mange mites		All ages		Macrocyclic Lactones Pyrethroids				
						Does not ki	ill eggs	
Life cycle 2-3 weeks		Ho anima trea	use all als before atment	se all Treat wh before Do not i ment new a		/hole group t introduce animals	Treat may trea	t early – need to it twice









Drench testing to check if an anthelmintic is effective in cattle

A drench test involves doing a faecal egg count before and after dosing to check if the wormer is effective. Consult your vet or advisor to assist in interpreting the results and discussing control measures. A more detailed faecal egg count reduction test on individual samples may be needed.

- 1. Select 10-15 animals at random
- 2. Place a mark or record tag numbers to identify these animals
- 3. Collect individual dung samples and send to the lab for a pooled faecal egg count test, the lab will mix the samples together for one test and result (individual testing will give more accurate results but a pooled test is more cost effective)
 - Hold animals in a clean pen where possible and allow 1-2 hours for the animals to defecate. Alternately, to obtain freshly fallen samples, approaching a group of resting animals will often encourage them to pass faeces as they walk away. Dung must be fresh (warm). Eggs in older dung may have hatched or dried out giving inaccurate results.
- 4. Dose animals with the chosen wormer on the same day or within 1-2 days of the initial sample
 - a. Calibrate dosing equipment, measure that the equipment is giving the expected volume
 - b. Dose according to the heaviest animal in a similar sized group
 - c. Ensure all animals are dosed correctly following the manufacturer's instructions

Retest the same animals by faecal sampling as above 10-14 days after dosing

Results will be given in eggs per gram (epg) and the reduction in egg count is compared from one sample to the next.

Calculate the percentage reduction as follows:

(Egg count Test1 - Egg count Test2) x 100

Egg count Test1

- Greater than 95% reduction = product working effectively
- Less than 95% reduction = product not working effectively

The initial egg count would need to be in excess of 200 epg to draw conclusions regarding product efficacy, if the first count is lower repeat at the next dosing interval rather than doing a second test.





















Silage Quality

•DMD: >72

•Crude protein (% DM):

>13.5

•Dry matter: 25-30%

•pH: 3.8 - 4.5

•UFV/UFL(unit/kg DM): >0.89

SILAGE TARGET? •DMD: 73.4%

•Crude protein (% DM) 14%

•Dry matter: 37%

•pH: 4.52

•UFV/UFL (unit/kg DM): _____ 0.84 UFV / 0.87 UFL

SILAGE RESULT?



Hitting target weights =

easier finishing and

increases slaughter

options

•Testing silage + correcting ration = improved performance

•WEIGH!!



Concentrate supplementation and silage quality							
Silage quality	66 DMD 70 DMD 74 DM						
Finishing cattle target - 1kg ADG	7kg	5.5kg	4kg				
Cost over 100 days at €340/t concentrate	€238	€187	€136				
Store cattle target 0.6kg ADG	2kg	1.25kg	0.5kg				
Cost over 100 days at €340/t concentrate	€68	€42	€17				
Weanlings target 0.6kg ADG	3kg	2kg	1kg				
Cost over 100 days at €340/t concentrate	€102	€68	€34				











SPRING CALVERS IN GOOD CONIDTION

Feed restricted access silage (8 o% o requirements) Feed silage ad lib Feed silage ad lib + 0.5-1.0 kg meals Feed silage ad lib + 1.0 kg meals 72 DMD 65 DMD

- 60 DMD
- 55 DMD

*Feeding 1.0 extra for thing cows

AUTUMN CALVING SUCKLER COWS

Silage DMD %	72	66	60	55
Cows in Good Condition				
Pre-mating	1.8	2.5	3.0	3.5
Post-mating	0-0.5	1-1.5	1.5-2.0	2-2.5
Cows in Poor Condition				
Pre-mating	1.8	2.5	3.0	3.5
Post-mating	1.8	2.5	3.0	3.5

Silage DMD %	70	65	60	55
Weanlings (ADG 0.6 kg)	1-1.5	1.5-2.0	2.5-3.0	3-3-5
Store Cattle	0-1.0	1.5-2.0	2.0-2.5	2.5-3.0
Finishing (ADG 1 kg / day)	5-5-5	7 7.5	Ad lib	Ad Lib

	Protein Level in the Silage						
	8%	10%	12%	14%			
Weanlings							
- ba	20%	18%	16%	14%			
- 1	18%	16%	14%	12%			
3 Kg							
Finishing							
cattle	14	12%	11%	10%			
5 kg	13	12%	11%	10%			
6 kg	12	12%	11%	10%			
7 kg							
			1	l			









ACHICULTURE AND FOOD DEVELOPMENT ALTIONITY

Fodder Budgeting



Fodder Required							
	Α	В	С	D			
Animal Type	No. stock for winter	No. months (Including a 4- 6 week reserve)	Tonnes of fresh weight of silage required per month	Tonnes of silage needed (AxBxC)			
Suckler cows			1.4				
0-1 yr old			0.7				
1-2 yr old			1.3				
2+ yr old			1.3				
Ewes			0.15				
Total tonnes ne	tonnes						
Total bales nee	bales						



Length (m) x width (m) x height (m) divided by 1.4 (to allow for a silage pit at 22% dry matter)
Allow 700kg fresh weight per bale when completing calculations





















Weanling Vaccination

	RSV + Pi3					RSV + Pi3 and Mannheimia haemolytica				
	Rispoval 2		Rispoval RS + Pi3 Bovillis Intranasal RSP Bovalto Respi IN			Bovillis Bovipast Bovalto Respi 3 Bovalto Respi 4 (BVD)				
	Intramuscu Two shots (4 wee 6 month cove	llar ks apart) erage	Intranasal – one shot 3 month coverage			Intramuscular Two shots (4 weeks apart) OR Bo 6 month coverage		Booster		
	IBR									
Bovilis IBR Marker Live		IBR Only	Live	Live I		One shot, 3, 9 and 21 months.				
Rispoval IBR Marker Live		IBR Only	Live	Live		One shot at 3 month, repeat every 6 months for protection (see note for vaccination programmes)		h, repeat protection nation		
Bov ina	Bovilis IBR Marker inactivated		IBR Only	Inactiv (Dead)	Inactivated (Dead)		From 3 months old. Two shots 3-5 week apart. (see note for vaccination programmes)		. Two shots nation	
Rispoval IBR Marker inactivated		IBR Only	Inactiv (Dead)	Inactivated (Dead)		From 3 months old. Two shot 3-5 week apart. (see note for vaccination programmes)		. Two shots nation		









eagasc

Bovine Respiratory Disease - vaccinations and programmes (July 2021)

Vaccine Name	Protects against				Live /inactivated(de ad)	Route of Admin	No. of shot in Primary Course	Booster	
	RSV	Pi3	Mannhaemia Haemolytica	BVD					
Bovilis Bovipast RSP	+	+	+	-	Inactivated (Dead)	SC	Two	6 months or ahead of next risk period.	
*Bovalto Respi 3	+	+	+	-	Inactivated (dead)	SC	Two	6 months or ahead of next risk period	
Bovilis Intranasal RSP	+	+	-	-	Live	IN	one	12 weeks	
Rispoval RS+Pi3	+	+	-	-	Live	IN	one 12 weeks		
Bovalto Respi IN	+	+	-	-	Live	IN	One	12 weeks	
Rispoval 2	+	+	-	-	Live	м	Two	6 months	
*Bovalto Respi 4	+	+	+	+	Inactivated (Dead)	SC	Two	6 months or ahead of next risk period	
IN- Intranasal. SC – subcuta	ineous. Il	VI — Intra	muscular						
Bovilis IBR Marker Live			IBR Only		Live	IN+IM	One shot, 3, 9 and 21 months.		
Rispoval IBR Marker Live	IBR Only				Live	IN +IM	One shot at 3 month, repeat every 6 months for protection (see note for vaccination programmes)		
Bovilis IBR Marker inactivated	IBR Only				Inactivated (Dead)	IM	From 3 months old. Two shots 3-5 week apart. (see note for vaccination programmes)		
Rispoval IBR Marker inactivated	IBR Only				Inactivated (Dead)	sc	From 3 months old. Two shots 3-5 week apart. (see note for vaccination programmes)		
If there is a high prevalence months. Then they fall into 2) Alternatively vaccinate of	If there is a high prevalence of IBR on the farm 1) calves may be given an intranasal IBR vaccine (live) from 2 weeks, followed by a live vaccine at 3 months. Then they fall into vaccination programme.								
Zoetis IBR Programmes MSD IBR Programmes									
1. Rispoval IBR-Marker inactivated (subcutaneously)					1. Bovillis IBR-Marker inactivated (intramuscularly)				
Primary course @ 3 month; 2 doses 3-5 weeks apart					Primary course @ 3 month; 2 doses 4 weeks apart				
Booster: 1 dose every 6 months					Booster: 1 dose every 6 months				
2.Rispoval IBR-Marker live (intramuscularly)					2.Bovillis IBR-Marker live (intramuscularly)				
Primary course @ 3 months: 1 dose					Primary course @ 3 months: 1 dose				
Booster: 1 dose every 6 months					Booster: 1 dose every 6 months				
3.Rispoval IBR - 12 month vaccination programme (3,9,21 month)					3.Bovillis IBR - 12 month vaccination programme (3,9,21 month)				
Primary course @ 3 months: 1 dose Rispoval IBR-Marker live (intramuscularly)					Primary course @ 3 months: 1 dose Bovillis IBR-Marker live (intramuscularly)				
6 month Booster: 1 dose Rispoval IBR-Marker inactivated (subcutaneously)				6 month Booster: 1 dose Bovillis IBR-Marker live (intramuscularly)					
Annual booster: 1 dose Rispoval IBR-Marker inactivated (subcutaneously) < 12 months					months	1 dose Bovilli	s iok-marker live (in	tramusculariy) < 12	

Note: This is a summary correct at the time of writing. Always check with your vet before introducing a vaccination programme to your farm.

*For active immunisation of cattle in the absence of maternally derived antibodies







ahi Animal Health

<u>Notes Page</u>

Targeted Advisory Service on Animal Health (TASAH), a Parasite Control TASAH consult, between trained veterinary practitioners and their clients

Google – AHI TASAH programme – closing date October 31st this year

AHI have a list of all the products available to control parasites – just google AHI Listing of products available in Ireland for parasite control in cattle 2023









H&S Winter Checks on cagasc ahi Animal Health **Drystock Farms** AGRICULTURE AND FOOD DEVELOPMENT AUTO Service tractor & other Check sheds are in good Good lighting machinery repair Clear vehicle & ·Safety guards on all pto's ·Gates, doors & feed pedestrian pathways and equipment barriers are secure & Tidy yards •Clean & tidy vehicles opening & closing properly Pest control (windows - visibility and •Electrics working and safe Sanitation facilities cab - safety while driving) Adequate ventilation in Locked medicine Organised & tidy tool animal housing especially cabinet & chemical store shed where slatted tanks Housing Yard Machinery FARM SAFETY NOTICE No unauthorised persons allowed beyond this point Think **Risk Assessment** BEWARE Livestock can be dangerous Plan **Emergency nos.** CAUTION Farm machinery in operation Do Eircode 24 This is not a playground! **ALWAYS THINK SAFETY FIRST!**

