DAIRY ANTIMICROBIAL REPORT

Kingshay HEALTH MANAGER

Name: Joe Brown

Vet: Tom Smith

This report is based on antimicrobial products purchased in the year ending December 2017

Your Report	Definitions of measurements used in the report
This report analyses your annual antimicrobial purchases to identify the types of products used and inform future decisions on responsible medicine usage. Please discuss this analysis with your vet.	**Critically Important Antimicrobials** - identified by RUMA (Responsible Use of Medicines in Agriculture Alliance) as being most important in human medicine.
Within the report, 'Critically Important Antimicrobials' are highlighted in red.	* **PCUs** (Population Corrected Unit) - Uses average weight at time of treatment (calculated as average weight over whole lifetime). Calculation assumes all beef animals are for slaughter.
Please note: This report is based on Medicine purchases NOT on farm usage.	** **DDDVet** (Defined Daily Dose) - Average number of standard courses per cow per year, taking into account dose rate and treatment duration.
	*** **DCDVet** (Defined Course Dose) - Average dose per treatment course, taking into account daily dose rate & course length.

Name: Joe Brown

Vet: Tom Smith

Kingshay HEALTH MANAGER

DAIRY ANTIMICROBIAL REPORT

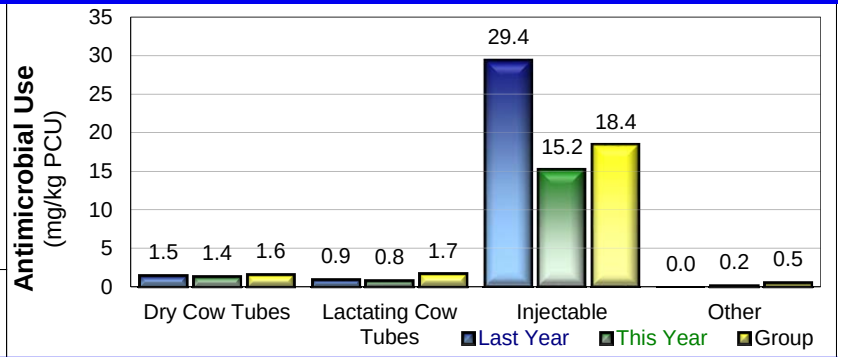
December-17

Herd Performance		Last Year	This Year	Group
Herd Size		137	139	308
Yield per Cow	litres	10,377	10,867	8,744
Cell Count	'000	147	147	161

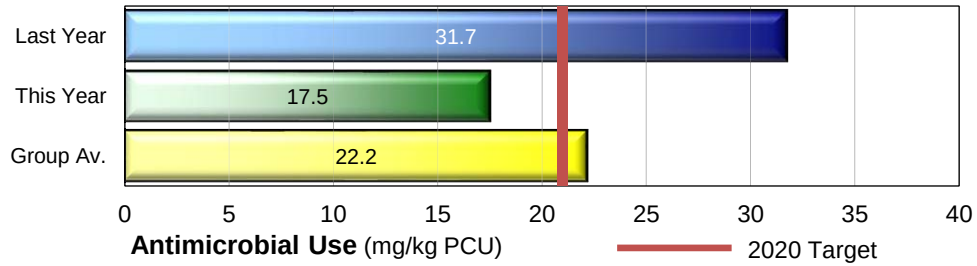
A year on year summary of your antimicrobial use is shown compared to the group average, the 'Top 25%' of each result and the 6 RUMA Dairy Sector 2020 Targets. Please discuss this analysis with your vet.

Antimicrobial Use & RUMA Targets	Last Year	This Year	Group Av.	Top 25%	2020 Target
1) Critically important injectables (mg/kg PCU)	2.035	0.305	0.844	0.000	0.538
2) Critically important intra-mammary - DDDVet**	1.460	0.504	0.175	0.000	0.166
3) Dry cow tubes - DDDVet**	0.620	0.576	0.523	0.155	0.674
4) Lactating cow tubes - DDDVet**	1.518	0.772	0.828	0.263	0.727
5) Sealant tube usage (courses/cow)	0.66	0.73	0.73	1.13	0.70
6) Total antimicrobial usage (mg/kg PCU*)	**31.7**	**17.5**	**22.2**	**6.0**	**21.0**
DDDVet **	8.81	4.15	5.33	1.80	
DCDVet ***	3.31	1.91	2.12	0.85	

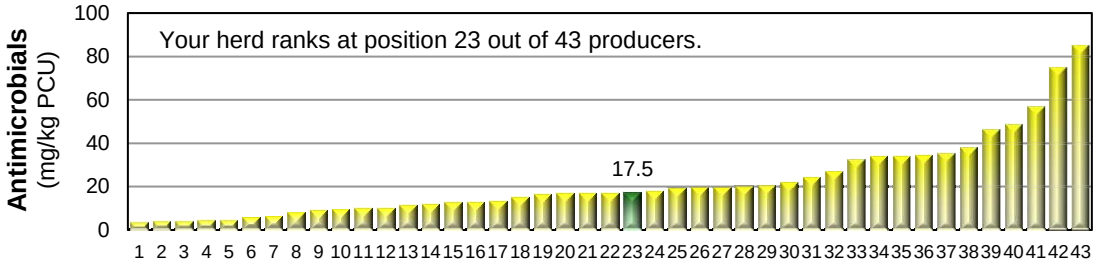
Antibiotic Use - the form in which antibiotics are administered



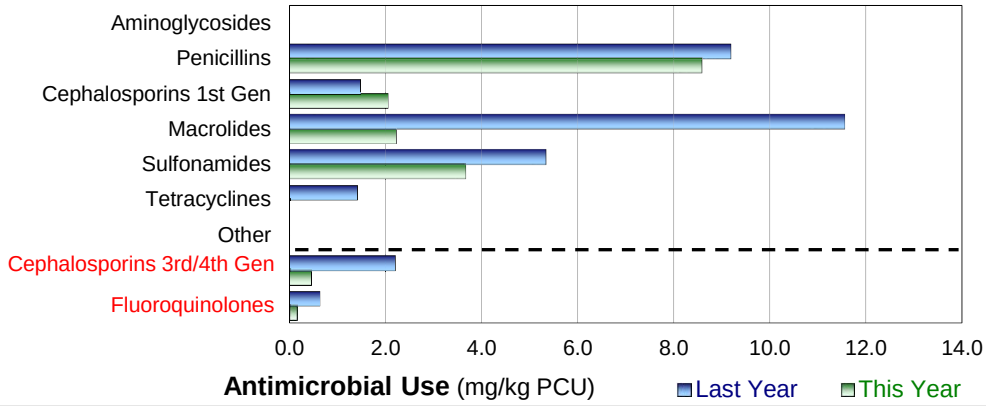
Total Antimicrobial Use Summary



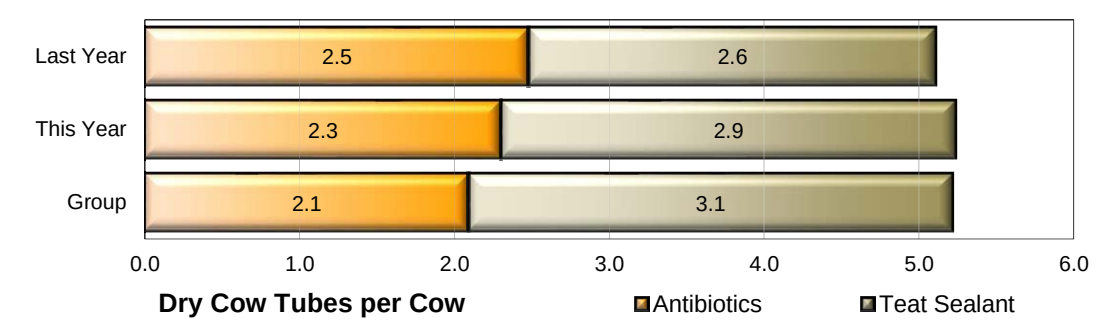
Comparison to Other Producers by Total Antimicrobial Use



Breakdown by Antimicrobial Class - year on year comparison



Dry Cow Therapy - antibiotic and teat sealant tubes per cow



Printed: 18/01/18

Name: Joe Brown

Vet: Tom Smith

Kingshay HEALTH MANAGER

DAIRY ANTIMICROBIAL REPORT

December-17

Main Antimicrobial Products Purchased in Year Ending December 2017

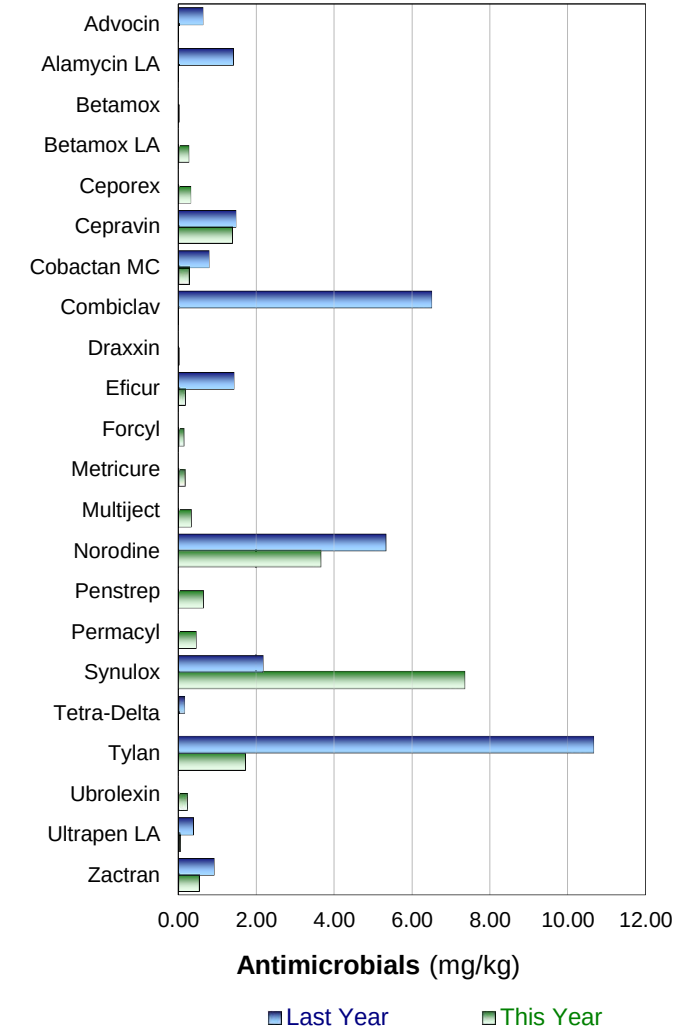
Products Purchased (A to Z Order)	Total Purchased	Total Usage (mg/kg)	DDDVet **	DCDVet ***	Typical courses per 100 cows *	Classes of Antimicrobial within Product
Betamox	3 ml	0.01	0.001	0.000		Penicillins
Betamox LA	100 ml	0.25	0.031	0.009	1	Penicillins
Ceporex	100 ml	0.30	0.044	0.010	1	Cephalosporins 1st Gen
Cepravin	320 tubes	1.35	0.000	0.576	58	Cephalosporins 1st Gen
Cobactan MC	210 tubes	0.27	1.511	0.504	50	Cephalosporins 3rd/4th Gen
Draxxin	6 ml	0.01	0.031	0.004		Macrolides
Eficur	200 ml	0.17	0.169	0.042	4	Cephalosporins 3rd/4th Gen
Forcyl	50 ml	0.14	0.038	0.015	2	Fluoroquinolones
Metricure	19 tubes	0.16	0.137	0.068	7	Cephalosporins 1st Gen
Multiject	72 tubes	0.32	0.518	0.173	17	Penicillins, Aminoglycosides
Norodine	900 ml	3.66	0.281	0.102	10	Sulfonamides
Penstrep	100 ml	0.63	0.048	0.014	1	Penicillins, Aminoglycosides
Permacyl	144 ml	0.44	0.037	0.012	1	Penicillins
Synulox	3,100 ml	7.35	0.885	0.253	25	Penicillins
Tylan	500 ml	1.69	0.130	0.029	3	Macrolides
Ubrolexin	40 tubes	0.22	0.288	0.096	10	Cephalosporins 1st Gen, Aminoglycosides
Ultrapen LA	8 ml	0.02	0.002	0.001		Penicillins
Zactran	200 ml	0.51	0.000	0.000		Macrolides
Total	**661 Tubes 5,411 ml**	**17.50**	**4.150**	**1.905**	**191**	

Products which include critically important antimicrobials are highlighted in red

* Based on product datasheet usage

Main Antimicrobial Products Purchased

Year on year comparison of amounts of antimicrobials used



Please note: This report is based on Medicine purchases **NOT** on farm usage.

Printed: 18/01/18