Montana Producer Antibiotic Use 2024 Survey

Frequencies and Marginal Percentages

Survey Information

Survey data collection period:

July 25, 2024 - March 31, 2025

Data collected by:

Social Data Collection and Analysis Services (Social Data), Montana State University-Bozeman

Notes:

This survey resulted in 213 responses from a population of 8,756 for a margin of error of 6.63%.

Summary of Variables

Variable Names: Icattle, Isheep, Igoats, Ibison, Ihorse

Question Text: Which of the following species of livestock do you raise, own, or manage? (Select all that apply.)

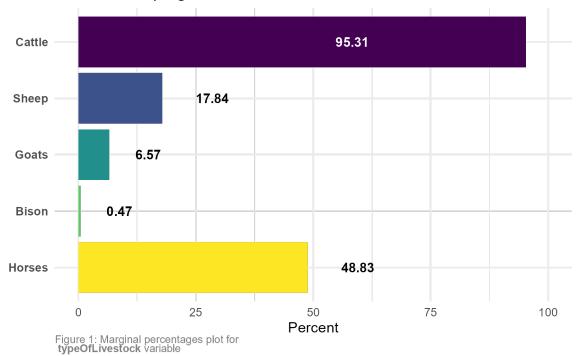
Note: Frequencies do not total to 100% as respondents could select multiple options. Some respondents did not select any of the options. The percentage represents the percent of respondents who chose the option out of 213 respondents.

Frequencies and Marginal Percentages:

Table 1: Frequencies and marginal percentages table for **lcattle**, **lsheep**, **lgoats**, **lbison**, **lhorse** variables

SELECTED CHOICE	FREQUENCY	PERCENT
Cattle	203	95.31%
Sheep	38	17.84%
Goats	14	6.57%
Bison	1	0.47%
Horses	104	48.83%

Icattle, Isheep, Igoats, Ibison, Ihorse

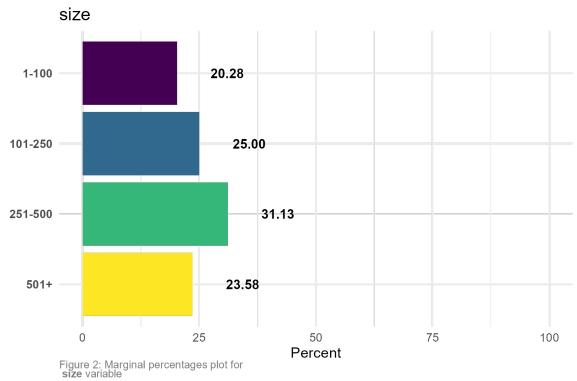


Variable Name: size

Question Text: Which best describes the size of your herd? (If more than one type of herd, combine number of animals.)

Table 2: Frequencies and marginal percentages table for **size** variable

RESPONSE OPTION	FREQUENCY	PERCENT
1-100	43	20.28%
101-250	53	25.00%
251-500	66	31.13%
501+	50	23.58%
TOTAL	212	



Variable Names: cmcalf, cmwean, cmyear, cmowner, cmbred, cmseed, cmother

Question Text: Which classes of livestock do you market? (Select all that apply.)

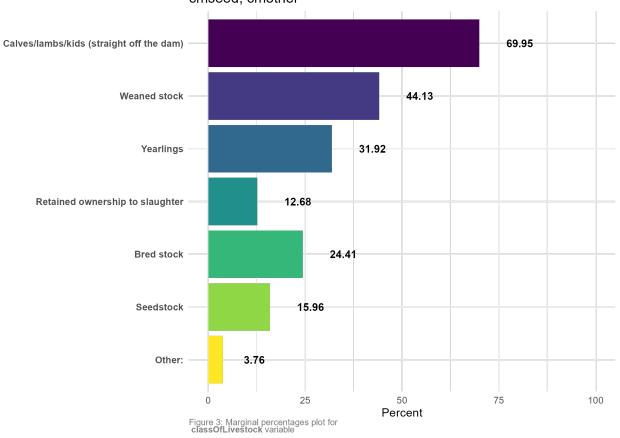
Note: Frequencies do not total to 100% as respondents could select multiple options. Some respondents did not select any of the options. The percentage represents the percent of respondents who chose the option out of 213 respondents.

Frequencies and Marginal Percentages:

Table 3: Frequencies and marginal percentages table for **cmcalf**, **cmwean**, **cmyear**, **cmowner**, **cmbred**, **cmseed**, **cmother** variables

SELECTED CHOICE	FREQUENCY	PERCENT
Calves/lambs/kids (straight off the dam)	149	69.95%
Weaned stock	94	44.13%
Yearlings	68	31.92%
Retained ownership to slaughter	27	12.68%
Bred stock	52	24.41%
Seedstock	34	15.96%
Other:	8	3.76%

cmcalf, cmwean, cmyear, cmowner, cmbred, cmseed, cmother



Variable Name: cmothtxt

Question Text: Which classes of livestock do you market? (Select all that apply.) - Other:

Responses:

Table 4: Responses for cmothtxt variable

RESPONSES

Dairy products

Retain market calves for slaughter and beef sales

Culls

Horses

My family also raise and feed some of our steer calves to show and then sell at the Central Montana Fair.

2 year old Hereford Bulls

Recip type cattle, cull cattle

Variable Name: allnat

Question Text: Do you market "all natural" livestock?

Table 5: Frequencies and marginal percentages table for **allnat** variable

No 137 66.83% Yes 68 33.17% TOTAL 205 allnat No 25	DECDONICE OPTION	FDFOLIENCY	DEDCENT
Yes 68 33.17% TOTAL 205 allnat No Yes 33.17%			
TOTAL 205 allnat No Yes 33.17			
allnat No Yes 33.17	Yes	68	33.17%
No Yes 33.17	TOTAL	205	
Yes — 33.17	allnat		
Yes — 33.17			
Yes			
Yes — 33.17			
Yes — 33.17	Ma		
	No —		
0 25	Yes		33.17
0 25			
0 25			
0 25			
	0	25	5
Pe Figure 5: Marginal percentages plot for allnat variable	Figure 5: Marginal	percentages plot for	Pe

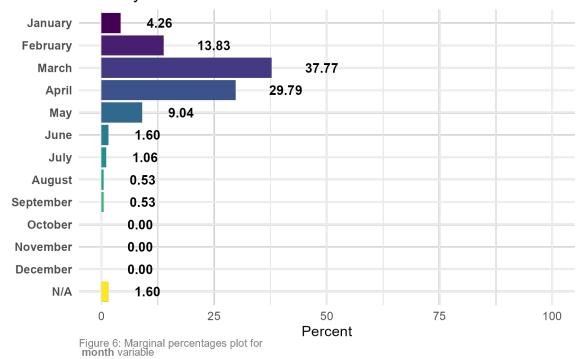
Variable Name: month

Question Text: Which month does the majority of your calving/lambing/foaling/kidding start? **Frequencies and Marginal Percentages**:

Table 6: Frequencies and marginal percentages table for **month** variable

RESPONSE OPTION	FREQUENCY	PERCENT
January	8	4.26%
February	26	13.83%
March	71	37.77%
April	56	29.79%
May	17	9.04%
June	3	1.60%
July	2	1.06%
August	1	0.53%
September	1	0.53%
October	0	0.00%
November	0	0.00%
December	0	0.00%
N/A	3	1.60%
TOTAL	188	

January to N/A

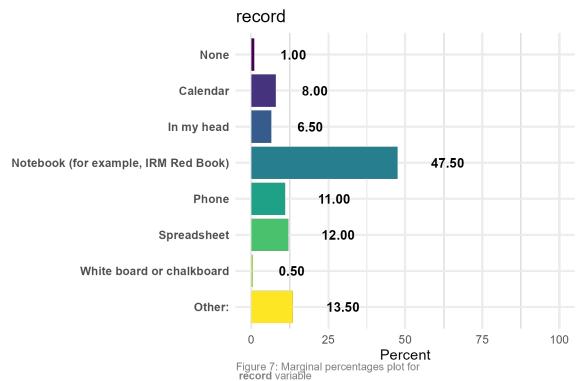


Variable Name: record

Question Text: What is your primary record keeping method for tracking treatment administration dates?

Table 7: Frequencies and marginal percentages table for **record** variable

RESPONSE OPTION	FREQUENCY	PERCENT
None	2	1.00%
Calendar	16	8.00%
In my head	13	6.50%
Notebook (for example, IRM Red Book)	95	47.50%
Phone	22	11.00%
Spreadsheet	24	12.00%
White board or chalkboard	1	0.50%
Other:	27	13.50%
TOTAL	200	



Variable Name: recordtx

Question Text: What is your primary record keeping method for tracking treatment administration dates? - Other:

Responses:

Table 8: Responses for **recordtx** variable

RES	PON	ISES
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CattleMax

Cattlemax program

CattleMax and special ear tag to ID treated animals

Cattlemax software

Cattlemax

Cattle Max (cloud based software)

CattleMax Software

Calendar; Spreadsheet; 701x New Awesome

Calendar; Notebook; Spreadsheet

In my head; Notebook

In my head; Notebook

My vet tells me

calendar; notebook; phone

Notebook; phone

calendar; notebook

Calendar; Notebook; Spreadsheet

In my head; Notebook

Calendar; Notebook; Spreadsheet

Paper tablet

Cellphone notes

Notebook and Spreadsheet

In my head and Notebook

Performance Beef Application

Book in calving shed

Phone calendar

Ranch Manager

Variable Name: treat

Question Text: Do you ever treat livestock with antibiotics?

Table 9: Frequencies and marginal percentages table for **treat** variable

RESPONSE OPTION	FREQUENCY	PERCENT					
No	5	2.36%					
Yes	207	97.64%					
TOTAL	212						
treat							
No — 2.36							
Yes —			97.64				_
0 Figure 9: Marginal p t reat variable	25 ercentages plot for	Pe	50 rcent	7	5	1	100

Variable Names: ctnewb, ctnurse, ctwean, ctyear, ctadult, ctother

Question Text: What class of livestock do you treat with antibiotics? (Select all that apply.)

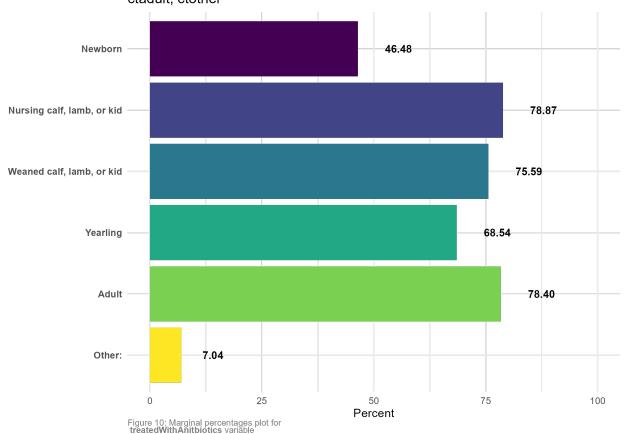
Note: Frequencies do not total to 100% as respondents could select multiple options. Some respondents did not select any of the options. The percentage represents the percent of respondents who chose the option out of 213 respondents.

Frequencies and Marginal Percentages:

Table 10: Frequencies and marginal percentages table for **ctnewb**, **ctnurse**, **ctwean**, **ctyear**, **ctadult**, **ctother** variables

SELECTED CHOICE	FREQUENCY	PERCENT
Newborn	99	46.48%
Nursing calf, lamb, or kid	168	78.87%
Weaned calf, lamb, or kid	161	75.59%
Yearling	146	68.54%
Adult	167	78.40%
Other:	15	7.04%

ctnewb, ctnurse, ctwean, ctyear, ctadult, ctother



Variable Name: ctothtxt

Question Text: What class of livestock do you treat with antibiotics? (Select all that apply.) - Other:

Responses:

Table 11: Responses for **ctothtxt** variable

RESPONSES

any age if sick or injured

Only sick ones

We treat them when necessary then take them out of our Natural program.

Any age if needed but only if needed

Only sick animals, as needed

Case by case basis

Only as needed

Whatever gets sick

Any that I see need it

any age that presents sickness

Any in need.

Only if they are sick and need it.

Only livestock that are sick not depending on age

only as needed. all ages

12 | 3 2

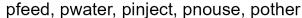
Variable Names: pfeed, pwater, pinject, pnouse, pother

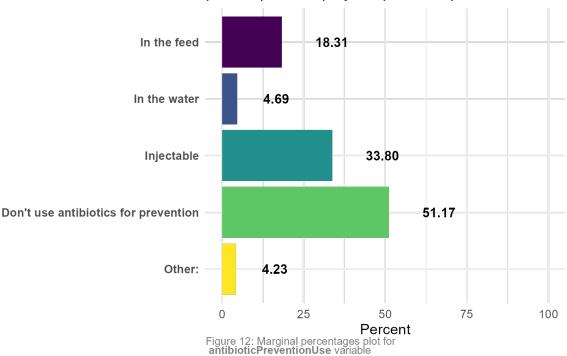
Question Text: How do you use antibiotics for prevention? (Select all that apply.)

Note: Frequencies do not total to 100% as respondents could select multiple options. Some respondents did not select any of the options. The percentage represents the percent of respondents who chose the option out of 213 respondents.

Table 12: Frequencies and marginal percentages table for **pfeed, pwater, pinject, pnouse, pother** variables

SELECTED CHOICE	FREQUENCY	PERCENT
In the feed	39	18.31%
In the water	10	4.69%
Injectable	72	33.80%
Don't use antibiotics for prevention	109	51.17%
Other:	9	4.23%





Variable Name: pothtxt

Question Text: How do you use antibiotics for prevention? (Select all that apply.) - Other:

Responses:

Table 13: Responses for **pothtxt** variable

RESPONSES

We dont typically use as preventative but will feed through occasionally.

I've thought about ctc in mineral

Bolus

Haven't used feed thru antibiotics for prevention since needing a prescription, now wait and treat individual and hope dont have to treat the whole lot

I use vitamins/minerals in feed to boost overall immune function.

Very rare but in feed

dry treat

oral

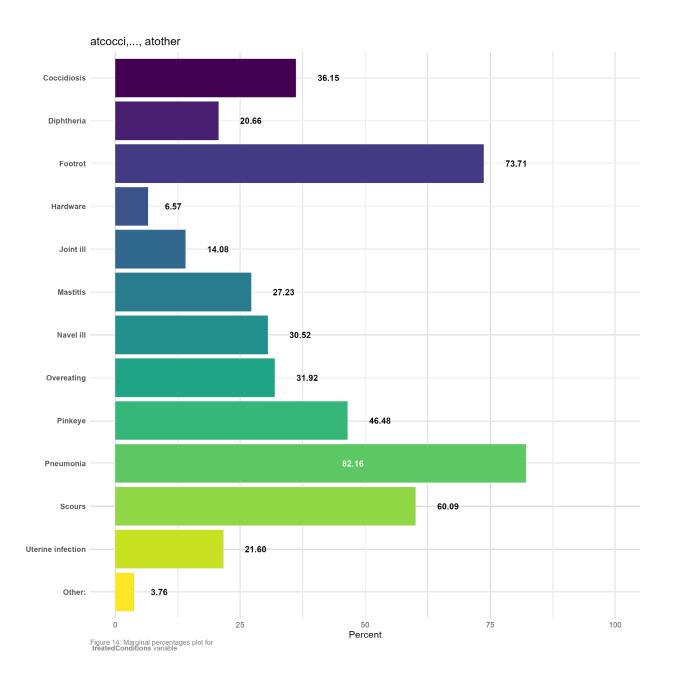
salt-aureomycin

Variable Names: atcocci,..., atother

Question Text: What conditions do you regularly use antibiotics to treat? (Select all that apply.) **Note**: Frequencies do not total to 100% as respondents could select multiple options. Some respondents did not select any of the options. The percentage represents the percent of respondents who chose the option out of 213 respondents.

Table 14: Frequencies and marginal percentages table for atcocci,..., atother variables

SELECTED CHOICE	FREQUENCY	PERCENT
Coccidiosis	77	36.15%
Diphtheria	44	20.66%
Footrot	157	73.71%
Hardware	14	6.57%
Joint ill	30	14.08%
Mastitis	58	27.23%
Navel ill	65	30.52%
Overeating	68	31.92%
Pinkeye	99	46.48%
Pneumonia	175	82.16%
Scours	128	60.09%
Uterine infection	46	21.60%
Other:	8	3.76%



Variable Name: atothtxt

Question Text: What conditions do you regularly use antibiotics to treat? (Select all that apply.) - Other: **Responses**:

Table 15: Responses for atothtxt variable

RESPONSES

Foul foot (infection)

none

General infections

mycoplasma; polio; haemophilus

No regularity

Wounds

Wound infection, sole access, tooth infection

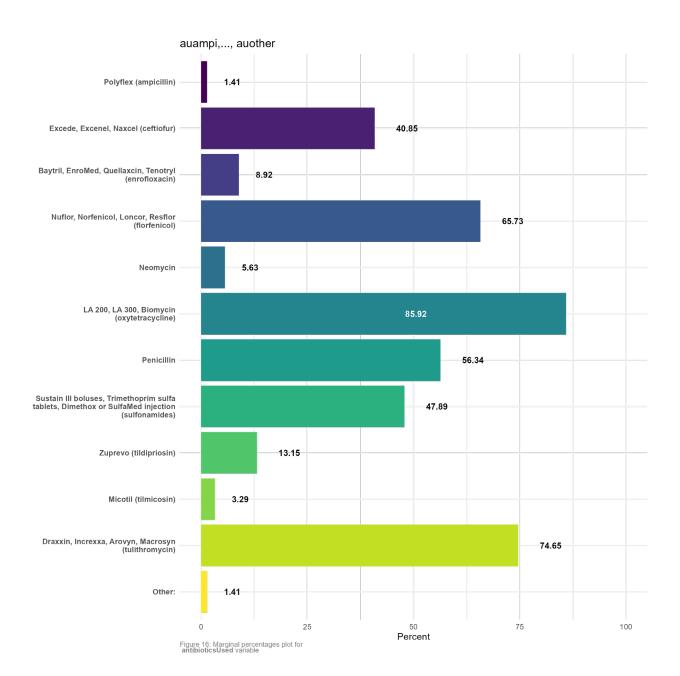
Variable Names: auampi,..., auother

Question Text: Antibiotics used: (Select all that apply.)

Note: Frequencies do not total to 100% as respondents could select multiple options. Some respondents did not select any of the options. The percentage represents the percent of respondents who chose the option out of 213 respondents.

Table 16: Frequencies and marginal percentages table for auampi,..., auother variables

SELECTED CHOICE	FREQUENCY	PERCENT
Polyflex (ampicillin)	3	1.41%
Excede, Excenel, Naxcel (ceftiofur)	87	40.85%
Baytril, EnroMed, Quellaxcin, Tenotryl (enrofloxacin)	19	8.92%
Nuflor, Norfenicol, Loncor, Resflor (florfenicol)	140	65.73%
Neomycin	12	5.63%
LA 200, LA 300, Biomycin (oxytetracycline)	183	85.92%
Penicillin	120	56.34%
Sustain III boluses, Trimethoprim sulfa tablets, Dimethox or SulfaMed injection (sulfonamides)	102	47.89%
Zuprevo (tildipriosin)	28	13.15%
Micotil (tilmicosin)	7	3.29%
Draxxin, Increxxa, Arovyn, Macrosyn (tulithromycin)	159	74.65%
Other:	3	1.41%



Variable Name: auothtxt

Question Text: Antibiotics used: (Select all that apply.) - Other:

Responses:

Table 17: Responses for **auothtxt** variable

RESPONSES

Zactran

ToDay brand mastitis treatment

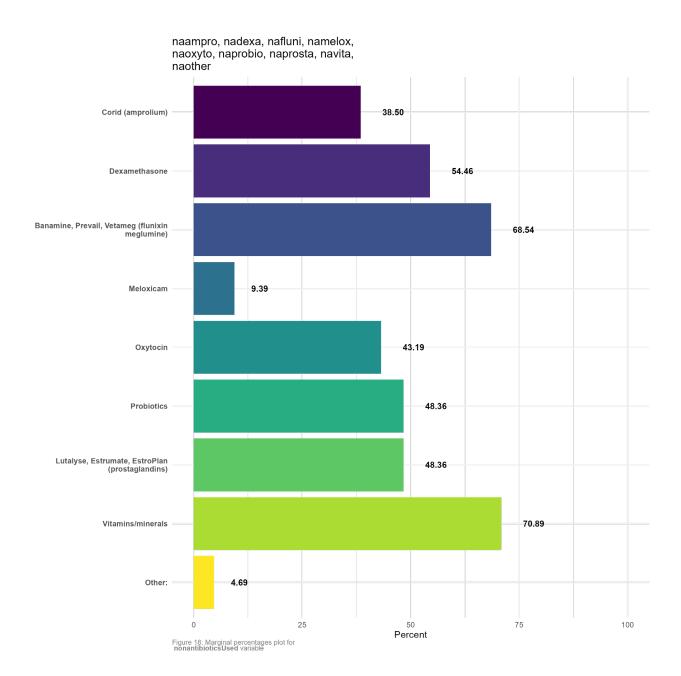
Variable Names: naampro, nadexa, nafluni, namelox, naoxyto, naprobio, naprosta, navita, naother

Question Text: What non-antibiotic treatments do you use? (Select all that apply.)

Note: Frequencies do not total to 100% as respondents could select multiple options. Some respondents did not select any of the options. The percentage represents the percent of respondents who chose the option out of 213 respondents.

Table 18: Frequencies and marginal percentages table for **naampro, nadexa, nafluni, namelox, naoxyto, naprobio, naprosta, navita, naother** variables

SELECTED CHOICE	FREQUENCY	PERCENT
Corid (amprolium)	82	38.50%
Dexamethasone	116	54.46%
Banamine, Prevail, Vetameg (flunixin meglumine)	146	68.54%
Meloxicam	20	9.39%
Oxytocin	92	43.19%
Probiotics	103	48.36%
Lutalyse, Estrumate, EstroPlan (prostaglandins)	103	48.36%
Vitamins/minerals	151	70.89%
Other:	10	4.69%



Variable Name: naothtxt

Question Text: What non-antibiotic treatments do you use? (Select all that apply.) - Other: **Responses**:

Table 19: Responses for **naothtxt** variable

RESPONSES

Mineral oil; vinegar

Mineral Salt

Vitamin B is the one I use the most!

MB-1

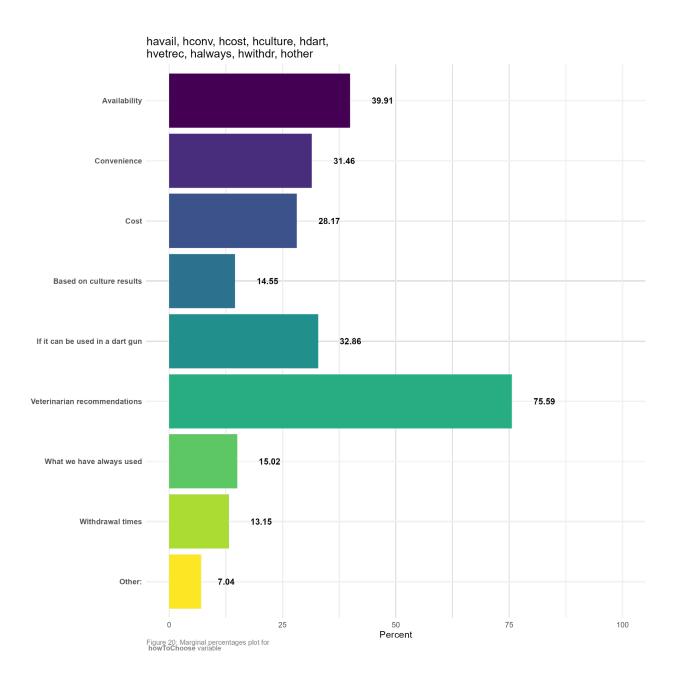
Variable Names: havail, hconv, hcost, hculture, hdart, hvetrec, halways, hwithdr, hother

Question Text: How do you choose which antibiotics to use? (Select all that apply.)

Note: Frequencies do not total to 100% as respondents could select multiple options. Some respondents did not select any of the options. The percentage represents the percent of respondents who chose the option out of 213 respondents.

Table 20: Frequencies and marginal percentages table for **havail**, **hconv**, **hcost**, **hculture**, **hdart**, **hvetrec**, **halways**, **hwithdr**, **hother** variables

SELECTED CHOICE	FREQUENCY	PERCENT
Availability	85	39.91%
Convenience	67	31.46%
Cost	60	28.17%
Based on culture results	31	14.55%
If it can be used in a dart gun	70	32.86%
Veterinarian recommendations	161	75.59%
What we have always used	32	15.02%
Withdrawal times	28	13.15%
Other:	15	7.04%



Variable Name: hothtext

Question Text: How do you choose which antibiotics to use? (Select all that apply.) - Other:

Responses:

Table 21: Responses for hothtext variable

RESPONSES

Success rate

Symptoms

Disease

The antibiotic I feel best fits the illness the animal has

It works

Which has the best results. Draxxin has been working well

Symptoms

The most effective with least harmful effects to overall health of animal and prevention of drug resistance. Also depends on what disease treating.

What symptoms are to match effectiveness

Animal Health Protocols based on how high risk the cattle are on arrival

Efficacy

approved [illegible]

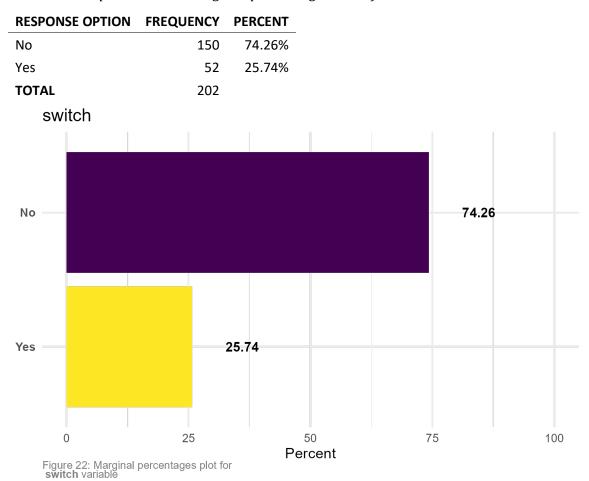
weather - some are too thick for cold

Advice from friends or sales people

Variable Name: switch

Question Text: Have you switched antibiotics because you have noticed resistance (not working as well)?

Table 22: Frequencies and marginal percentages table for **switch** variable

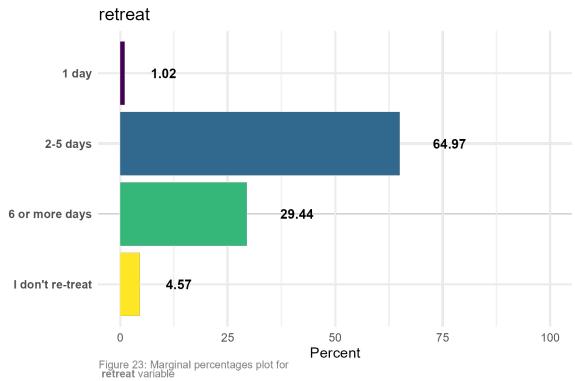


Variable Name: retreat

Question Text: If an animal does not improve with antibiotic treatment, how long do you wait to retreat?

Table 23: Frequencies and marginal percentages table for **retreat** variable

RESPONSE OPTION	FREQUENCY	PERCENT
1 day	2	1.02%
2-5 days	128	64.97%
6 or more days	58	29.44%
I don't re-treat	9	4.57%
TOTAL	197	

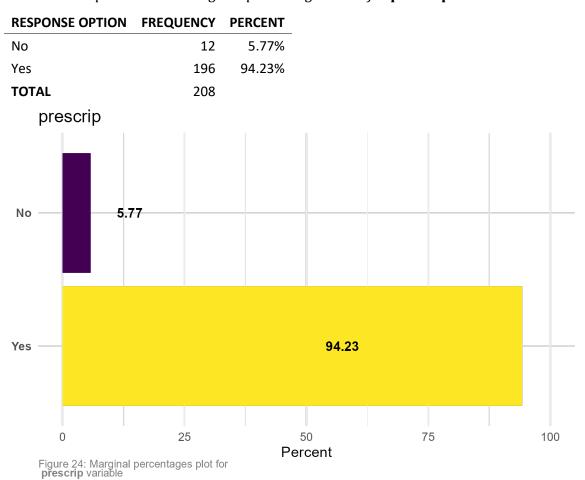


Variable Name: prescrip

Question Text: Do you know about the recent change in June 2023 that requires a veterinary prescription for all sales of medically important antibiotics?

Frequencies and Marginal Percentages:

Table 24: Frequencies and marginal percentages table for **prescrip** variable



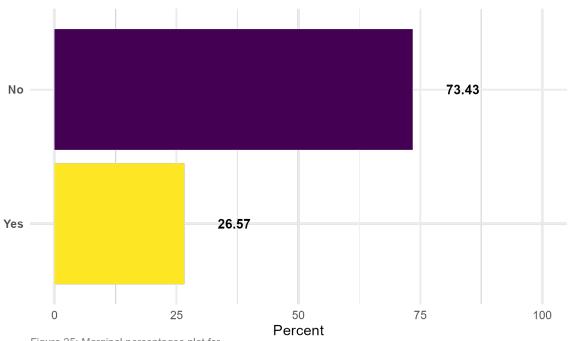
29 | 3 2

Variable Name: herdres

Question Text: Are you concerned about antibiotic resistance in your herd? **Frequencies and Marginal Percentages**:

Table 25: Frequencies and marginal percentages table for **herdres** variable

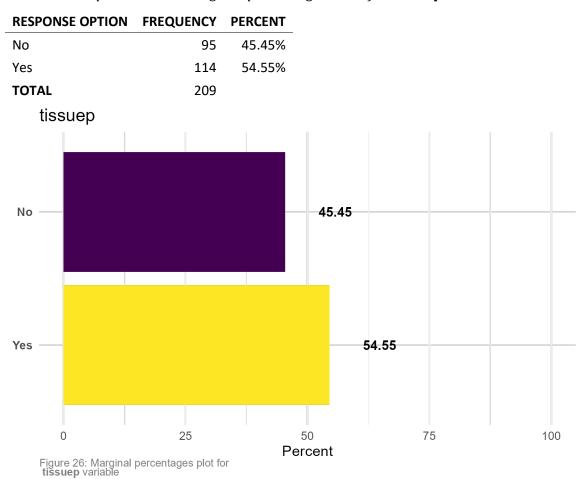
RESPONSE OPTION	FREQUENCY	PERCENT
No	152	73.43%
Yes	55	26.57%
TOTAL	207	
herdres		



Variable Name: tissuep

Question Text: Are you concerned about the possibility of tissue damage when you administer antibiotics?

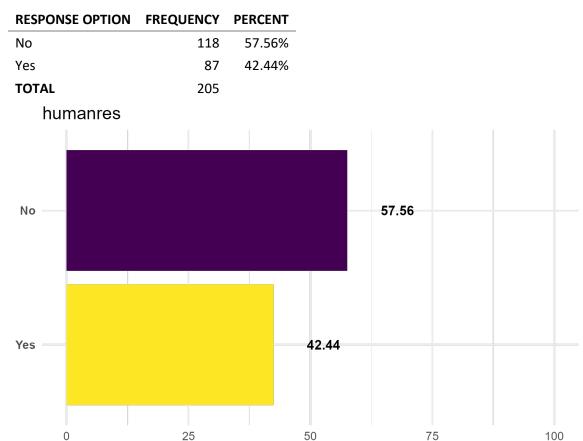
Table 26: Frequencies and marginal percentages table for **tissuep** variable



Variable Name: humanres

Question Text: Are you concerned about antibiotic resistance in humans? **Frequencies and Marginal Percentages**:

Table 27: Frequencies and marginal percentages table for **humanres** variable



Percent

32 | 3 2