

Antimicrobial Use and Stewardship



October 2, 2018

AUS Updates

April – September, 2018

Area 1:

Program Administration

Completed Projects

- *BCP 2018-2019* — 11 new positions approved:
 - 3 Veterinarians, 2 Environmental Scientists, 2 Associate Governmental Program Analysts, a Research Scientist I, a Staff Services Manager I, a Research Program Specialist II, and an Office Technician
- AUS Communication Plan
 - 2018 Strategic Plan posted to website
 - Dr. Jones continues to discuss SB 27 at all livestock and poultry board leadership meetings.

Ongoing Projects

- Initiated recruitment to fill vacancies
- Legislative Report in progress – due January 1, 2019
- Accessing scientific journals and databases through a multi-agency compact
- Continuing to seek Federal funding opportunities

Area 2:

Surveys & Studies

Outreach and Education

- Sheep Commission meeting to promote AUS Sheep Survey; 4/10/18
- Visit to Animal Health Branch Ontario office to meet staff, address local vet concerns, and go over vet mapping project for the area; 4/26/18 – 4/27/18
- Ram Sale survey and program outreach; April 2018
- California Cattlemen's Association (CCA) Midyear Meeting, Redding CA; 6/21/18
- Antimicrobial Use Metrics Workgroup meeting, Fort Collins CO; 8/6/18 – 8/8/18
- Teleconference with the National Antimicrobial Resistance Monitoring System (NARMS) *FDA & USDA*; 8/21/18
- Continued participation in Multistate One Health Antimicrobial Stewardship Call; 9/4/18

Completed Projects

- Sheep survey data collection
 - Survey mailed out across state (6/1/18)
 - Responses collected
 - Data entry completed (9/14/18)
- Support of UC Davis retrospective *Salmonella* study
 - *Salmonella* samples obtained from cattle between 2002-2017 were prepped for further analysis
 - Optimized polymerase chain reaction (PCR) testing of resistance genes in *Salmonella*
 - Note: This work was part of a series of studies planned by the researcher, who will continue to analyze the samples and publish the results in peer-reviewed scientific journals

Ongoing Projects

- Cow-calf survey: data processing and analysis
- Sheep survey: data processing and analysis
- NAHMS Goat 2019 survey:
 - Meetings and calls with National Animal Health Monitoring System (NAHMS) and National Agricultural Statistics Service (NASS)
 - Assisted with survey tool development and testing
 - Planning ongoing; survey begins Summer of 2019

Ongoing Projects *continued*

- Ongoing collaboration with CAHFS Lab to refine procedures, discuss lab capacity, and plan for future studies
 - Minimum inhibitory concentration (MIC) testing being performed on samples from an ongoing study
- Continue working with researchers on studies of on-farm antimicrobial use, husbandry practices, and for longitudinal and biological sampling:
 - commercial poultry
 - adult dairy cattle
 - backyard poultry & other small-scale livestock

Area 3:

Stewardship

Outreach and Education

Calif. Wool Growers Ram Sale (Porterville)	4/7/2018	Sr. Livestock Inspector
Santa Barbara County Animal Control	4/13/2018	Sr. Livestock Inspector
Bakersfield Ram Sale	4/20/2018	Sr. Livestock Inspector
California Holstein Show (Tulare)	4/20/2018	Sr. Livestock Inspector
Porterville Fair	5/11/2018	Sr. Livestock Inspector
4-H/ FFA Livestock Show (Madera Co. Fair)	5/17/2018	Sr. Livestock Inspector
4-H Animal Science Symposium	6/18/2018	Marissa Silva
CCA Spring Meeting	6/21/2018	Tucker/ Busch
California Ag Teachers Association	6/26/2018	Marissa Silva
Pacific Veterinary Conference (CVMA)	6/29-6/30/2018	Rosie Busch
Veterinary Information Network webinar	8/9/2018	Rosie Busch
UCD Toxicology Group	8/14/2018	Busch/ Silva
California Woolgrowers Association Annual Meeting	8/17/2018	AUS Affiliates

Completed Projects

- Principles of Antimicrobial Stewardship – foundation of the Stewardship page as well as a printable PDF
 - website: <https://www.cdfa.ca.gov/ahfss/AUS/Stewardship.html>
 - printable: [https://www.cdfa.ca.gov/ahfss/AUS/docs/Antimicrobial Stewardship Principles.pdf](https://www.cdfa.ca.gov/ahfss/AUS/docs/Antimicrobial_Stewardship_Principles.pdf)
- Judicious Use Guidelines – with links to relevant laws and printable PDFs available online
 - For all stakeholders (e.g., livestock owners, veterinarians, general public)
https://www.cdfa.ca.gov/ahfss/AUS/docs/Guidelines_Judicious_Use_of_Antimicrobials_Livestock.pdf
 - For veterinarians
https://www.cdfa.ca.gov/ahfss/AUS/docs/Guidelines_Veterinarians_Judicious_Use_of_Antimicrobials_Livestock.pdf

Ongoing Projects

- Antimicrobial Stewardship Guidelines and Best Management Practices
 - Beef: Cow-calf
 - Dairy: Pre-weaned Calves
 - Sheep
- Additional VCPR Models
 - Rural Livestock Producer-Veterinarian
 - Out-of-State Veterinarian Consultation
- Antibiotic Susceptibility Testing Guidance
 - Minimum Inhibitory Concentrations (MIC) Interpretation & Application
- Veterinary Medicine Loan Repayment Program (VMLRP)



Ongoing Projects *continued*

- Outreach and education promoting Principles of Antimicrobial Stewardship, Judicious Use Guidelines and upcoming materials as they are developed.
- Review current literature to identify and assess practical interventions to mitigate antimicrobial resistance in bacteria in California livestock.

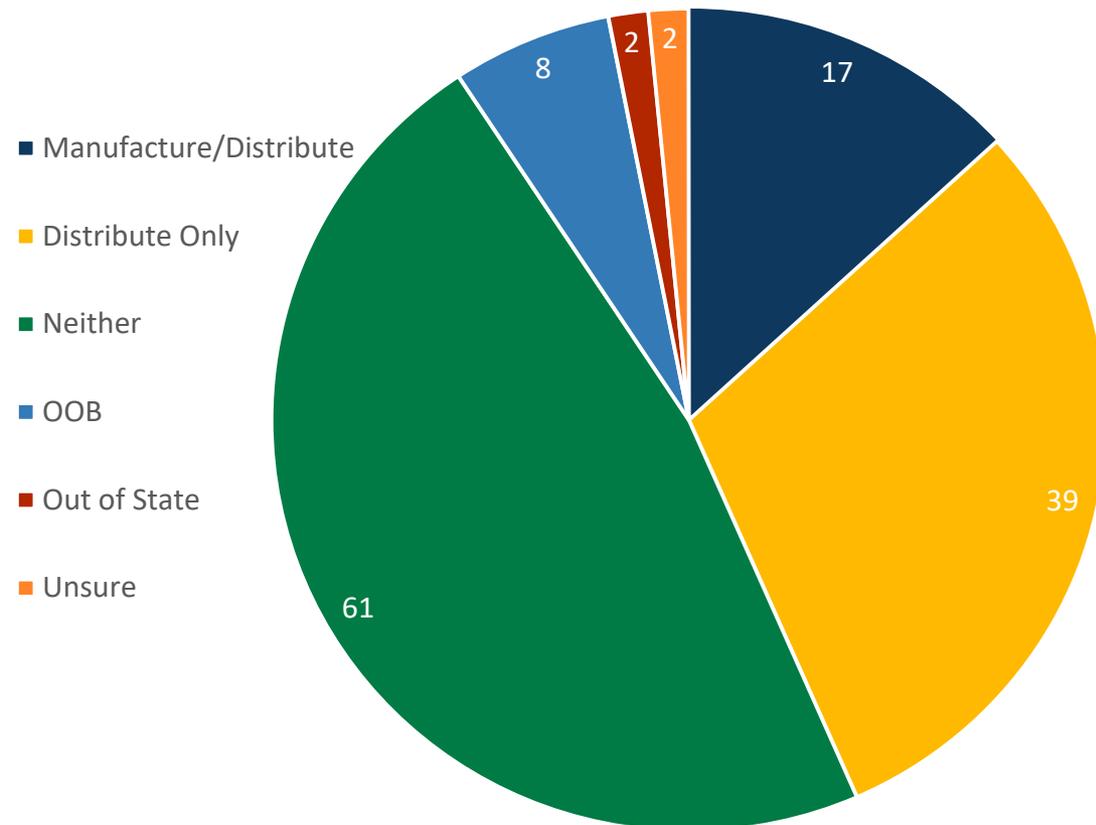
Area 4:

Regulated Use

Outreach and Education

- Outreach was limited to locations on the FDA VFD intent list.
 - Staff reached out to 78 locations
 - 17 manufacture/distribute
 - 39 distribute only
 - 22 neither
 - These locations were presented a letter on how to remove themselves from the FDA list
 - 5 locations have removed themselves from the list
 - 32 locations pending a visit as they are livestock drug retailers and do not distribute VFD feed

FDA VFD Intent List (129)



Completed Projects

- Regulations approved for the sales of restricted livestock drug and California prescription drugs-8/16/18
- Qualified Individual training contract executed
 - Contractor has begun work on content of training
 - First training will be 10/24/18
- FDA cooperative agreement: Drug Residue Prevention Program
 - Industry Wide Outreach/Education, On-Farm Assessments, and Best Practice Visits
 - 3 year agreement started 9/1/18

Ongoing Projects

- Assessing need for additional clarifying regulations
 - Compliance, recordkeeping, etc.
- VFD and livestock drug retailers compliance monitoring efforts
- Collaboration with State and Federal agencies to enforce provisions

Upcoming Meetings

- **Semiannual Ad Hoc Advisory Meetings**- next meeting will be Spring 2019
- **Strategic Plan**- beginning in 2019, these will be released parallel to the Fiscal Year, as compared to the current calendar year (July 2019- June 2020)

Reminder: We have open door policy. Stakeholders don't need to wait until the next meeting to reach out with current issues or topics.



Thank you for attending!

Antimicrobial Use and Stewardship Contact Information



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<https://www.cdfa.ca.gov/ahfss/AUS/>



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