Variables from questionnaire used to screen for factors associated with isolation of antimicrobial resistant *Salmonella* at the cow-level.

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| Question | Type of Variable |
| 1. For what specific reason is this cow being culled? |  |
|  a. Low Milk (0=No; 1=Yes) | Binomial |
|  b. Poor Reproduction (0=No; 1=Yes) | Binomial |
|  c. Lameness (0=No; 1=Yes) | Binomial |
|  d. Post-Surgery Complication (0=No; 1=Yes) | Binomial |
|  e. Mastitis (0=No; 1=Yes) | Binomial |
|  f. Metabolic Disease (0=No; 1=Yes) | Binomial |
|  g. Other (0=No; 1=Yes) | Binomial |
| 2. What Antimicrobials has this cow received for the condition noted above? (question 1) |  |
|  Treatment 1st Drug Treatment (0=No; 1=Yes) | Binomial for each drug used |
|  Treatment 2 Drug Treatment (0=No; 1=Yes) | Binomial for each drug used |
|  Treatment 3 Drug Treatment (0=No; 1=Yes) | Binomial for each drug used |
| 3. Are these antibiotics used separately or in a combination? (0=No; 1=Yes) | Binomial |
| 4. Has the cow received anti-inflammatories (e.g. Banamine)? (0=No; 1=Yes) | Binomial |
|  If Yes |  |
|  Name of drug (0=No; 1=Yes) | Binomial for each drug used |
|  5. Has the cow received intravenous drugs? (0=No; 1=Yes) | Binomial |
|  6. Did the cow receive no treatments? (0=No; 1=Yes) | Binomial |