Antimicrobial Use Reporting: Tool for Choosing Metrics and Indicators

Choice of surveillance metrics and Indicators in antimicrobial use reporting is informed by a number of factors, including the purpose of reporting, availability of data, animal characteristics (e.g., life span, weights range, management as group or individual). Detailed information is available in the Backgrounder on Metrics and Indicators for Measuring and Reporting on Antimicrobial Use in Livestock.

This tool has been developed to use alongside the backgrounder to help users document the process for choosing AMU metrics and indicators.

SECTION 1 - SECTOR BACKGROUND INFORMATION

SPECIES/SECTOR _____

DATE _____

DESCRIPTION [Basic description of the species and production system, any specific considerations, e.g., weight range over lifecycle, length of production cycle, etc.]	TYPE of TREND to be DESCRIBED
	☐ Trends at a farm or local level
	☐ Trends across geographic region
	☐ Trend over time (circle 1):
	    Calendar (month, year etc.)
	    Production cycle
	☐ Other: [describe]

PURPOSE [Select the intended purposes for AMU surveillance and reporting. Check all that apply and add description if needed. Rank your choices.]
☐ Communicate within animal production sector/own organization
☐ Communicate to other sectors/organizations engaged in AMU surveillance [describe audience below]
☐ Communicate to policy makers
☐ Provide benchmarks and trends for comparison with other countries
☐ Provide benchmarks and trends for public/consumer outreach
☐ Other

Comments/Description:

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TYPES OF DATA [What types of data on AMU do you have available?]

Numerator data (Metrics)
- ☐ Number of farms or animals treated
- ☐ Number of days on medication
- ☐ Amount of antimicrobial *prescribed* (by volume or weight)
- ☐ Amount of antimicrobial *sold* (by volume or weight)
- ☐ Amount of antimicrobial *dispensed*
- ☐ Amount of antimicrobial *used* (by volume or weight)
- ☐ Number of doses of antimicrobial used
- ☐ Number of defined daily doses (mg/kg/day)
- ☐ Other: [describe]

Denominator data
- ☐ Total number of farms or animals in population
- ☐ Total number of days in production cycle
- ☐ Number of days at risk of exposure to antimicrobial
- ☐ Average animal weight over entire production cycle, or biomass data
- ☐ Average slaughter weight
- ☐ Average animal weight at different stages in production cycle
- ☐ Animal life cycle data
- ☐ Production data (kg product produced)
- ☐ Other: [describe]

[What is the data quality i.e., challenges with the available data or limitations that should be described when reporting?]

SECTION 2 - CHOSEN METRICS and INDICATORS

AMU INDICATOR #1: [name]	AMU INDICATOR #2: [name]	AMU INDICATOR #3: [name]
_____	_____	_____
For this metric, indicate the:	For this metric, indicate the:	For this metric, indicate the:
Numerator:	**Numerator:**	**Numerator:**
_____	_____	_____
Denominator:	**Denominator:**	**Denominator:**
_____	_____	_____
Type of metric: ☐ Count based ☐ Weight based ☐ Dose based	**Type of metric:** ☐ Count based ☐ Weight based ☐ Dose based	**Type of metric:** ☐ Count based ☐ Weight based ☐ Dose based

RATIONALE: [Explain reasons why you chose this metric]

INDICATOR 1:	INDICATOR 2:	INDICATOR 3:

COMPARISON WITH OTHER COUNTRIES: [If applicable, describe how this metric is similar to or different than metrics used by other countries, e.g., U.S., European Union]

INDICATOR 1:	INDICATOR 2:	INDICATOR 3: