National Antimicrobial Resistance Monitoring System Animal Isolates
Cattle Slaughter* Isolates
Percent Resistance

Antimicrobial *(Number of Isolates)*	**1997 n=26**	**1998 n=284**	**1999 n=1610**	**2000 n=1388**	**2001 n=894**	**2002 n=1008**	**2003 n=672**
Amikacin	0	0	0	0	0	0	0
Amoxicillin/Clauvalanic Acid	7.7	2.5	3.9	9.9	11.9	17.7	21.0
Ampicillin	19.2	9.2	12.5	18.7	18.0	23.9	28.0
Apramycin	0	0	0.2	0.2	0.1	N/A	N/A
Cefoxitin	N/A	N/A	N/A	9.1	11.2	15.9	17.7
Ceftiofur	0	2.1	4.2	9.8	11.5	17.4	21.0
Ceftriaxone	0	0.7	0.1	0.1	0.1	0.2	0.1
Cephalothin	0	2.1	4.7	9.9	11.7	17.7	21.1
Chloramphenicol	11.5	5.6	8.5	15.1	16.6	20.6	25.0
Ciprofloxacin	0	0	0	0	0	0	0
Gentamicin	0	1.8	1.6	2.1	2.1	2.6	2.7
Imipenem	N/A	N/A	N/A	N/A	0	N/A	N/A
Kanamycin	7.7	9.5	7.1	6.6	6.9	10.1	15.2
Nalidixic Acid	0	0.4	0.1	0.4	0.4	0.4	0.4
Streptomycin	19.2	16.2	15.4	21.3	20.4	25.9	28.6
Sulfamethoxazole	26.9	15.5	15.0	19.9	19.8	22.3	25.0
Tetracycline	30.8	24.3	20.9	25.8	26.4	32.0	36.0
Ticarcillin**	19.2	8.5	N/A	N/A	N/A	N/A	N/A
Trimethoprim/Sulfamethoxazole	3.8	2.5	2.4	2.2	2.6	2.5	3.3

*Isolates obtained from slaughter (carcass swabs) and processing plants (ground product).
**In 1999 Florefenicol replaced ticarcillin. No results are listed for Florfenicol due to lack of interpretive cirteria for this antimicrobial.