

**Appendix 1:** Nitrogen excretion (in kg N/year) of livestock (data from the Ministerium für Landwirtschaft, Umwelt und Verbraucherschutz Mecklenburg-Vorpommern<sup>1</sup> (2008); all bold classifications are incorporated into the computation of the total nitrogen excretion from livestock).

Livestock	Nitrogen excretion per year and animal (kg N/year)
<b>Solipeds</b>	<b>42.27</b>
<b>Cattle - average</b>	<b>64.46</b>
Calf (< 8 months old, male)	20.03
Calf (< 8 months old, female)	30.00
Calf (8 - 12 months old, male)	41.00
Calf (8 - 12 months old, female)	49.00
Cattle (1 - 2 years old, male)	59.00
Cattle (1 - 2 years old, female)	75.00
Cattle (> 2 years old, male)	60.00
Cattle (> 2 years old, female)	85.00
<b>Dairy cow</b>	<b>120.00</b>
<b>Other cattle</b>	<b>105.60</b>
<b>Pig – average</b>	<b>12.60</b>
Piglet (< 2 kg)	3.20
Other pigs	13.00
Breeding sow (incl. gilt raised for this purpose > 50 kg)	21.65
<b>Sheep – average</b>	<b>11.92</b>
Sheep (> 1 year)	9.20
Dairy sheep (incl. lambs put to the ram, raised for this purpose)	13.80
Other ewes (incl. lambs put to the ram)	13.60
Rams	13.80
Other sheep (incl. wether)	9.20
<b>Chicken – average</b>	<b>0.50</b>
Laying hen	0.79
Pullet and pullet chicks	0.26
Broiler cock, hen and other chicks	0.47
<b>Goose, ducks and turkey - average</b>	<b>1.55</b>
Goose (incl. chicks)	1.04
Duck (incl. chicks)	1.48
Turkey (incl. chicks)	2.14

<sup>1</sup> eng.: Ministry of Agriculture, Environment and Consumer Protection in Mecklenburg-Vorpommern