

**List of animal categories and other sectors used in RAINS-NH3 module**

Abbreviation	NAME OF THE CATEGORY	SNAP Code	Brief explanation
DL or DS	Dairy cows - (DL/DS) - kept on slurry/solid waste system	100501	All milking cows and cows in calf
OL or OS	Other cattle - (OL/OS) - kept on slurry/solid waste system	100502	All other cattle incl. bulls, beef cattle, youngstock.
PL or PS	Pigs - (PL/PS) - kept on slurry/solid waste system	100503,100504	Fattening pigs and sows
LH	Laying hens	100507	
OP	Other poultry	100508,100509	All poultry except laying hens, including broilers, turkeys, ducks, geese, etc
SH	Sheep	100505	Includes also goats
HO	Horses	100506	
FU	Fur animals	100510	
FR	Fertilizer use - urea		
FN	Fertilizer use - other nitrogen fertilizers	1001-100106	
IND	Industry	040402-040408	Production processes in inorganic chemical industry, incl. manufacture of fertilizers
WT	Waste treatment and disposal	0901-0904	
OT	Other sources	01,02,03,04,07,08	Various activities including stationary combustion, mobile sources and industrial processes.

**List of abatement techniques used in RAINS-NH3 module**

Abbreviation	NAME OF THE CONTROL TECHNIQUE	Brief explanation
LNF	Low nitrogen feed	Dietary changes, e.g. multi-phase feeding for pigs and poultry, use of synthetic amino acids (pigs and poultry), and the replacement of grass and grass silage by maize for dairy cattle
BF	Biofiltration	Air purification, e.g., by treatment of ventilated air using biological scrubbers to convert ammonia into nitrate or biological beds where ammonia is absorbed by organic matter. This option is applicable mainly for pigs and poultry (mechanically ventilated animal houses).
SA	Animal house adaptation	Improved design and construction of the floor (applicable for cattle, pigs, and poultry), flushing the floor, climate control (for pigs and poultry), or wet and dry manure systems for poultry.
CS_high	Covered outdoor storage of manure - high efficiency	Tension caps, concrete, corrugated iron or polyester
CS_low	Covered outdoor storage of manure - low efficiency	Floating foils, polystyrene
LNA_high	Low ammonia application - high efficiency	Immediate incorporation, deep and shallow injection of manure
LNA_low	Low ammonia application - medium/low efficiency	Slit injection, trailing shoe, slurry dilution, band spreading, sprinkling
SUB	Urea substitution	Substitution of urea by ammonium nitrate
STRIP	Stripping	Stripping and absorption techniques in the chemical industry, e.g. during fertilizer production