

Malé Declaration emission inventory preparation workshop. Delhi, India, 2010.

Exercise 7: Filling in dummy data for – Agriculture

1. Continue working with the workbook ‘Malé Inv workbook Version 3_test data.xls’ you saved at the end of Exercise 6.
2. Go to **Sheet: 4.1 Ammonia (NH₃) emissions from manure management in agriculture.**
3. Enter **500** as activity rate (in thousand animals) for *Dairy cattle*, *Other cattle* and *Buffalo* and then enter the default ammonia EFs for both *Housing management* and *Grazing*.
4. Go to **Sheet: 4.2 Emissions of NH₃ and NO_x from application of N-containing fertilizers (fertilizer volatilization, foliar emissions and decomposing vegetation).**
5. Enter **15000 t** each for *Ammonium sulphate* and for *Urea*, default EFs for **Region A** and defaults of 0.7 as percent N emitted as NO. Assume all soils are calcareous.
6. Go to **Sheet: 4.3 Emissions from agricultural residue burning.**
7. Enter **500 kt** as annual production for *Rice* and *Wheat only* and then their default values for: residue to crop ratios, dry matter fractions, fraction burnt in fields, fraction oxidised, C fraction of residues and for all the emission ratios and EFs.
8. **Did you get the correct values for Agriculture in Summary Sheet 9?**
9. **Save** your workbook.

From Summary sheet 9 – Annual emissions of each pollutant by source sector in kt/yr.

Sector	Sub-sector	Total emissions (kilotonnes pollutant per year (kt/yr))						
		SO ₂	NO _x	CO	NMVOC	NH ₃	PM ₁₀	PM _{2.5}
7. Solvent and other product use					3.83			
8. Agriculture	Manure management					20.80		
	Application of N-containing fertilizers		0.23			2.64		
	Burning of agricultural crop residues	0.13	0.61	16.75	1.27	0.49	1.67	1.67