

## Worksheet 1: Daily energy, protein and fibre needs of a cow - Rumen8 Tropics Course

The Cow		Her needs	
Cow LW	A kg	Energy for maintenance Short Guide Table 1	F MJ ME/d
Daily milk yield		Energy for Milk Production	
Volume	B litres	MJ/litre	B MJ/d
Fat	C %		
Protein	D %		
		Energy for walking (select slope)	
		Short Guide Table 2	H MJ/d
Prenancy stage		Energy for pregnancy Short Guide Table 4	Energy for body condition change Short Guide Tables 5/6
Number of days	E	J MJ/d	K MJ/d
		Her protein needs (g CP/kg DM) Short Guide Table 7	Her fibre needs (NDF) (g/kg DM) Short Guide Table 7
		L g/kg DM	M g/kg DM
TOTAL ENERGY, PROTEIN & FIBRE REQUIREMENT		ME = F+G+I+J+K CP = L NDF = M	MJ ME per day CP in diet g/kg DM NDF in diet g/kg DM