

Worksheet 1: Daily energy, protein and fibre needs of a cow - Rumens8 Tropics Course

The Cow		Her needs	
Cow LW	A <input type="text"/> kg	Energy for maintenance <i>Short Guide Table 1</i>	F <input type="text"/> MJ ME/d
Daily milk yield		Energy for Milk Production <i>Short Guide Table 3</i>	
Volume	B <input type="text"/> litres	MJ/litre <input type="text"/>	x <input type="text"/> B = <input type="text"/> G MJ/d
Fat	C <input type="text"/> %		
Protein	D <input type="text"/> %	Energy for walking (select slope) <i>Short Guide Table 2</i>	
		<input type="text"/> MJ/km	x <input type="text"/> H km/day = <input type="text"/> I MJ/d
Prenancy stage		Energy for pregnancy <i>Short Guide Table 4</i>	Energy for body condition change <i>Short Guide Tables 5/6</i>
Number of days	E <input type="text"/>	J <input type="text"/> MJ/d	K <input type="text"/> MJ/d gain or loss?
		Her protein needs (g CP/kg DM) <i>Short Guide Table 7</i>	Her fibre needs (NDF) (g/kg DM) <i>Short Guide Table 7</i>
		<input type="text"/> L g/kg DM	<input type="text"/> 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