

Worksheet 2: Calculating the ME, CP and NDF content of a diet - Rumen8 Tropics Course

Dry matter	Energy	Protein	Fibre
Pasture <div style="text-align: right;">A</div> <input type="text"/> kg DM /cow/day	<input type="text"/> X <input type="text"/> = <input type="text"/> F from A MJ/kg DM MJ/cow/day	<input type="text"/> X <input type="text"/> ÷ 100 = <input type="text"/> J from A protein % kg/cow/day	<input type="text"/> X <input type="text"/> ÷ 100 = <input type="text"/> O from A NDF % kg/cow/day
Supplement 1: <input type="text"/> X <input type="text"/> ÷ 100 = <input type="text"/> B kg/cow/day dry matter % from feed test kg DM /cow/day	<input type="text"/> X <input type="text"/> = <input type="text"/> G from B MJ/kg DM MJ/cow/day	<input type="text"/> X <input type="text"/> ÷ 100 = <input type="text"/> K from B protein % kg/cow/day	<input type="text"/> X <input type="text"/> ÷ 100 = <input type="text"/> P from B NDF % kg/cow/day
Supplement 2: <input type="text"/> X <input type="text"/> ÷ 100 = <input type="text"/> C kg/cow/day dry matter % from feed test kg DM /cow/day	<input type="text"/> X <input type="text"/> = <input type="text"/> H from C MJ/kg DM MJ/cow/day	<input type="text"/> X <input type="text"/> ÷ 100 = <input type="text"/> L from C protein % kg/cow/day	<input type="text"/> X <input type="text"/> ÷ 100 = <input type="text"/> Q from C NDF % kg/cow/day
Supplement 3: <input type="text"/> X <input type="text"/> ÷ 100 = <input type="text"/> D kg/cow/day dry matter % from feed test kg DM /cow/day	<input type="text"/> X <input type="text"/> = <input type="text"/> I from D MJ/kg DM MJ/cow/day	<input type="text"/> X <input type="text"/> ÷ 100 = <input type="text"/> M from D protein % kg/cow/day	<input type="text"/> X <input type="text"/> ÷ 100 = <input type="text"/> R from D NDF % kg/cow/day
Total daily dry matter intake <input type="text"/> A+B+C+D kg DM/cow	Total daily energy intake <input type="text"/> F+G+H+I MJ /cow	Total daily protein intake <input type="text"/> J+K+L+M kg/cow Protein % of ration <input type="text"/> N ÷ E x 100	Total daily fibre intake <input type="text"/> O+P+Q+R kg/cow NDF % of ration <input type="text"/> S ÷ E x 100
Cow requirements (from Worksheet 1)	Total daily energy requirement <input type="text"/> MJ	Crude protein requirement <input type="text"/> %	Fibre requirement <input type="text"/> % NDF