

APPENDIX 7

FODDER BUDGETING CALCULATION SHEET

Q1. how many days will this paddock last a specific number of stock?

Step 1: Calculate available pasture

Present herbage mass		kg DM/ha	(A)
Residual herbage mass (that remaining after grazing)		kg DM/ha	(B)
Available Pasture (A–B)		kg DM/ha	(C)

Step 2: Calculate livestock requirements

Stocking density (head per ha) x intake per head per day plus ADD spoilage i.e. 15%		kg DM/ha/day	(D)
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Step 3: Estimate pasture growth

Growth rate		kg DM/ha/day	(E)
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Step 4: Balance between growth and requirements (E–D)		kg DM/ha/day	(F)
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- If (F) is positive, present herbage mass (A) accumulates by this amount each day.
- If (F) is negative, the number of days the paddock will last is calculated by dividing C by F.

Q2. how many stock would I need to put into a paddock to graze it to a specific residual herbage mass over a given number of days?

Step 1: Calculate available pasture

Available pasture (as per step 1 above Present – Residual)		kg DM/ha	(C)
Plus growth for the period:			
Growth per day × no. of days		kg DM/ha	(G)
Total pasture available for the period (C + G)		kg DM/ha	(H)

Step 2: Livestock requirements

Intake per day (Add spoilage i.e. 15%) × number of days		kg DM/hd	(I)
Stock density required to achieve the desired outcome (H/I)		hd/ha	(J)

Step 3: Number of stock in the paddock to achieve desired outcome

(J) × the area of the paddock in hectares		hd
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