

Fertiliser Manual (RB209) 8th Edition errata

Section 1: Principles of nutrient management and fertiliser use

- Page 40 (Section 1): In the second table, the value for 8t/ha at Index 0 should be 155, not 185.

Section 2: Organic Manures

- Top of pages 67 and 69: The top line of text on each page should be on the bottom of pages 66 and 68, respectively, i.e. they are a continuation of the footnotes.
- Page 67: In the second table, Pig slurry – Total and available nutrients, the 6% dry matter, 4.4 kg/t total N and 2.8 kg/t readily available N numbers should not be in bold.
- Page 72: The '2.6', '1.2', '3.2' numbers in row one should be in row two. Also, the '0.9^a' nitrogen number in the next line of numbers should be one row up, i.e. in the row for 'Nitrogen (table on page 66)'.
- Page 73: The '0.7^a' nitrogen number should be one row up.
- Page 78: Under the nitrogen column the '1.7^a' number should be one row up.
- Page 81: Under Stage 6 the 'NIL', '20' and '70' numbers should be one row down i.e. on the Stage 3 minus Stage 4 line. The '£54/ha' should also move down a row.

Section 3: Using the recommendation tables

- Page 94: Table D, header D2. 'Other mineral soils' should read 'Medium soils'.
- Page 98: In the Example 2 box, the pig slurry supplies 65 kg/ha of crop available nitrogen not 86. Thus $120 - 65 = 55$ kg N/ha as fertiliser should be applied.

Section 4: Arable and forage crops

- Pages 106, 116: The footnote to the tables should refer readers to page 48, not page 30.
- Pages 113 – All cereals, 118 – Oilseed rape, 123 – Potatoes, 127 – Forage maize, 129 – Other forage crops: The sentence "No adjustment for yield should be made where the soil Index is higher than target" should be deleted.
- Page 114: The final line, column 4, of the table should read '105 (2-) 75 (2+)' not 105 (2-) 75 (2-).
- Page 114 (Sulphur): Range of sulphate-containing fertiliser applied in early spring should be '25-50 kg SO₃/ha' not 25-40.
- Page 115 (The effect of economic changes on nitrogen rates): The figures in the table on p. 116 have been revised – see page overleaf.
- Pages 120, 123, 126, 127, 129, 131: The tables on these pages should show a heading under the Index values 'kg/ha' not 'kg N/ha'.

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Section 8: Grass

- General point: In the Grass section of the Fertiliser Manual, the nitrogen recommendation tables allow for concentrate use. If bulky, relatively moist, bought-in feeds are used on the farm, these can be treated as concentrates by entering their use on a dry-matter basis. For example, feeding 2.5 t/cow brewers grains at 23% DM would be equivalent to 0.6 t/cow concentrates.
- Page 188: The list of soil types for Medium Soil Available Water should include 'organic' soils
- Page 189: In the Calculating stocking rate paragraph, the last sentence should read:
"Calculate the average number of livestock as LU and divide by the total area of grass and forage crops in the enterprise to give stocking rate."
Total area of grass and forage crops (including forage maize) should be used, not just the area of grassland.
- Pages 200-201: Tables 8.4 and 8.5 have been revised – see page overleaf.

Appendix 2

- Pages 221-224: In the title for Appendix 2, 'Smn' should be 'SMN'.

Appendix 7

- Page 234: The 'SO₃' under 'Kainit' and the 'Na₂O' under 'Sylvinit' should be indented so they appear in the right hand column.

Appendices 9 and 10

- General point: Readers should note that these two Appendices are interlinked. Values for the variables and parameters in the equations in Appendix 9 are to be found in the table in Appendix 10.
- Page 239: The '150.0' t/ha for carrots in column 2 is based on yield of ungraded roots removed from field, not fresh market yield.

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Table page 116

	Fertiliser N content (%)	Fertiliser Cost (£/tonne Product)					
Ammonium Nitrate	34.5%	£138	£207	£276	£345	£414	£483
Urea^a	46.0%	£184	£276	£368	£460	£552	£644
Urea-Ammonium Nitrate Liquid^a	28.0%	£112	£168	£224	£280	£336	£392
Cost of Fertiliser Nitrogen	£/kg N	£0.40	£0.60	£0.80	£1.00	£1.20	£1.40
Change to recommended N for Oilseed Rape (kg N/ha)							
Grain sale price (£/tonne)	200	20	-20	-50	-70	-80	-100
	225	30	-10	-30	-60	-70	-90
	250	40	0	-20	-50	-60	-80
	275	50	10	-10	-40	-50	-70
	300	60	20	-10	-30	-50	-60
	325	70	30	0	-20	-40	-50
	350	70	40	10	-10	-30	-50
	375	80	40	20	-10	-20	-40
	400	90	50	20	0	-20	-30
	425	90	50	30	10	-10	-30
	450	100	60	30	10	-10	-20

a. See notes on efficiency of use of different kinds of applied nitrogen page 48.

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Table 8.4 Beef: Grass Growth Class Average. Whole-season total nitrogen requirement for cut and grazed grass (kg N/ha)

BEEF Grass Growth Class Average			Total N requirement		
	Concentrate use	Stocking Rate	Cut		Grazed
	(t/animal/year)	LU/ha	kg/ha	Indicative yield* (t DM/ha)	kg/ha
Intensively grazed (lowland dairy steers and heifers; some suckler herds)	0.4	1.8	320	9.6	300
		1.6	310	9.4	210
		1.4	290	9.2	150
Moderately grazed (upland and lowland suckler herds; lowland dairy steers and heifers)	0.2	1.4	310	9.4	170
		1.2	290	9.2	110
		1.0	280	9.0	50
Extensively grazed (moorland/hill beef; grazing for biodiversity)	0.0	0.9	240	8.3	0
		0.5	210	7.9	0
		0.3	200	7.6	0

Table 8.5 Beef: Grass Growth Class Very poor/Poor. Whole-season total nitrogen requirement for cut and grazed grass (kg N/ha)

BEEF Growth Class Very poor/Poor			Total N requirement		
	Concentrate use	Stocking rate	Cut		Grazed
	(t/animal/year)	LU/ha	kg/ha	Indicative yield* (t DM/ha)	kg/ha
Intensively grazed (lowland dairy steers and heifers; some suckler herds)	0.4	1.3	270	6.8	270
		1.2	260	6.7	220
		1.1	250	6.7	180
Moderately grazed (upland and lowland suckler herds; lowland dairy steers and heifers)	0.2	1.2	270	6.9	250
		1.1	270	6.8	200
		1.0	260	6.7	160
Extensively grazed (moorland/hill beef; grazing for biodiversity)	0.0	0.9	230	6.3	110
		0.5	210	5.9	0
		0.3	200	5.8	0