

January 2018

## Nutrient Management Guide (RB209) corrections

The Nutrient Management Guide (RB209) has been updated. Digital copies, available at [www.ahdb.org.uk/rb209](http://www.ahdb.org.uk/rb209), have been revised. The app, available for Apple and Android devices, has also been updated.

This document lists the changes that you should take into account when reading your printed copy of the Nutrient Management Guide (RB209) that has not been revised.

### Section 1: Principles of nutrient management and fertiliser use

- Page 14, footnote of Table 1.2 should be;
  - a. For mineral and organic soils the target soil pH is 6.7 for continuous arable cropping and 6.2 for grass. Aim for 0.2 units above the optimum pH
  - b. For peaty soils the target soil pH is 6.0 for continuous arable cropping and 5.5 for grass. Aim for 0.2 units above the optimum pH

### Section 2: Organic materials

- Page 27, the further information box has an updated link for 'Sewage sludge on farmland: code of practice for England, Wales and Northern Ireland (2017)' <https://www.gov.uk/government/publications/sewage-sludge-on-farmland-code-of-practice/sewage-sludge-on-farmland-code-of-practice>

### Section 3: Grass and forage crops

- Page 4, the contents page has been updated;
  - Phosphate, potash and magnesium recommendations, page 27
  - Forage maize – nitrogen, phosphate and potash, page 27
  - Wholecrop cereals – nitrogen, page 28
  - Wholecrop cereals – phosphate, potash and sulphur, page 32
- Page 5, second to last bullet point in introduction section has changed to;

Optimum soil pH – very low or high soil pH will reduce the amount of nutrients available to the plant. Optimum soil pH for grassland is 6.0 for mineral soils, 5.7 for intermediate organic soils and 5.3 for peaty soils. Aim to raise pH to 0.2 units above the optimum.
- Page 18, a further information box has been added containing a link to AHDB's grassland reseeding guide

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- Page 32, Table 3.27 has been updated;

Table 3.27 Phosphate and potash for wholecrop cereals

	P or K Index				
	0	1	2	3	4 and higher
	kg/ha				
Expected yield 30 t FW/ha					
Phosphate	115	85	55	0	0
Potash	220	190	160	100	0

The footnotes have also been updated to;

The amounts of phosphate and potash are appropriate to the fresh weight yields shown. Table 3.2 can be used to calculate offtake if wholecrop yields are known to be different, for example a spring-sown crop yielding 25 t FW/ha.

At Index 2, phosphate and potash can be applied when convenient during the year but at Index 0 and 1, they should be applied and worked into the seedbed. To avoid damage to germinating seedlings do not use more than 150 kg/ha of nitrogen plus potash on sandy soils.

- Page 32, a new example has been added on how to calculate phosphorus and potassium requirements for whole crop cereals
- Page 33, under sodium, it should read that if sodium is recommended but not applied, increase potash by 100 kg K<sub>2</sub>O/ha, not 10
- Page 34, a new example has been added on how to calculate phosphorus and potassium requirements for fodder beet

## Section 4: Arable crops

- Page 29, under 'wheat grown for bread-making' the correct amount of extra nitrogen to increase grain protein by 1.1% should be 40 kg N/ha not 60
- Page 34, the title of Table 4.21 should read 'Effect of economic changes on nitrogen rate – all cereals'
- Page 40, Table 4.27 has been replaced, see page overleaf;

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Table 4.27 Effect of economic changes on nitrogen rate – oilseed rape

	<b>Fertiliser N content (%)</b>	<b>Fertiliser cost (£/tonne product)</b>					
<b>Ammonium nitrate</b>	34.5%	£138	£207	£276	£345	£414	£483
<b>Urea</b>	46.0 %	£184	£276	£368	£460	£552	£644
<b>Urea-ammonium nitrate liquid</b>	28.0%	£112	£168	£224	£280	£336	£392
<b>Cost of fertiliser nitrogen</b>	<b>£/kg N</b>	<b>£0.40</b>	<b>£0.60</b>	<b>£0.80</b>	<b>£1.00</b>	<b>£1.20</b>	<b>£1.40</b>
<b>Change to recommended N for oilseed rape (kg N/ha)</b>							
<b>Grain sale price (£/tonne)</b>	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

- Page 40, the first sentence should read 'The recommendations in Table 4.25 and 4.26 are based on a breakeven ratio of 2.5'
- Page 41, first paragraph, third sentence should read 'Table 4.11 gives typical values of the phosphate and potash content in crop material per tonne of yield'

## Section 6: Vegetables and bulbs

- Page 38, the deficient value for magnesium in Table 6.23 should be <0.15, not 1.15
- Page 39, Table 6.24 – the potash recommendation at Index 2+ should be 150, not 15