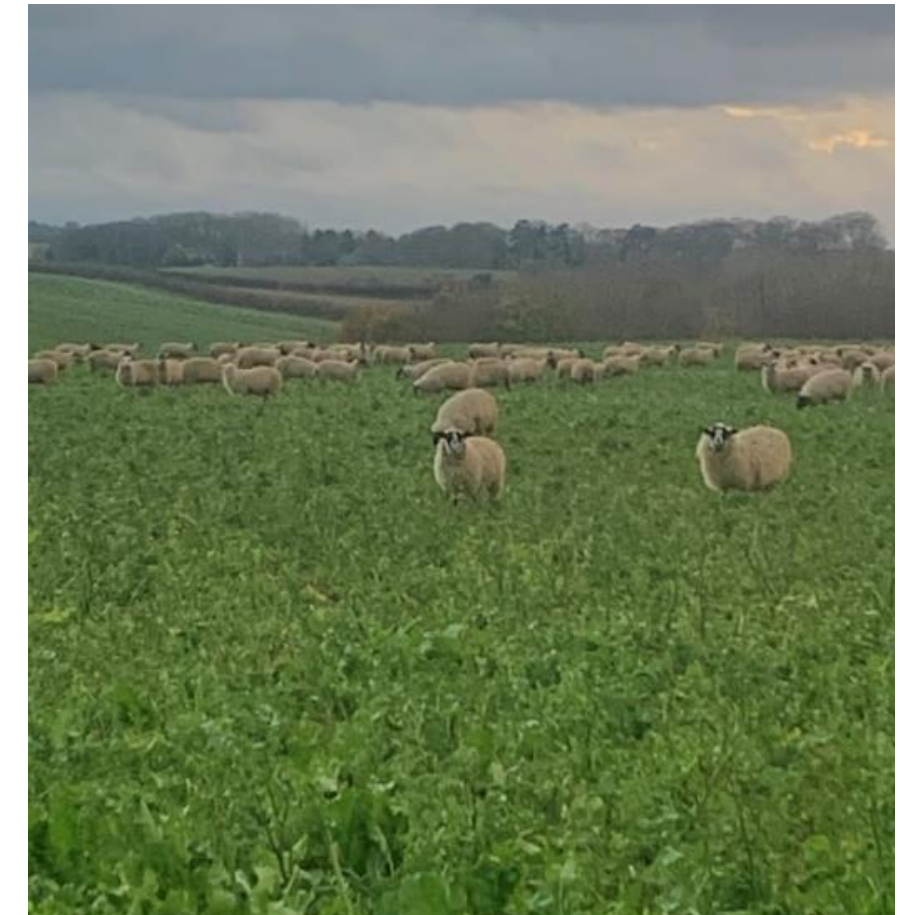


Links between Sheep Grazing, SFI and Soil Health

Presenter Ian Willoughby

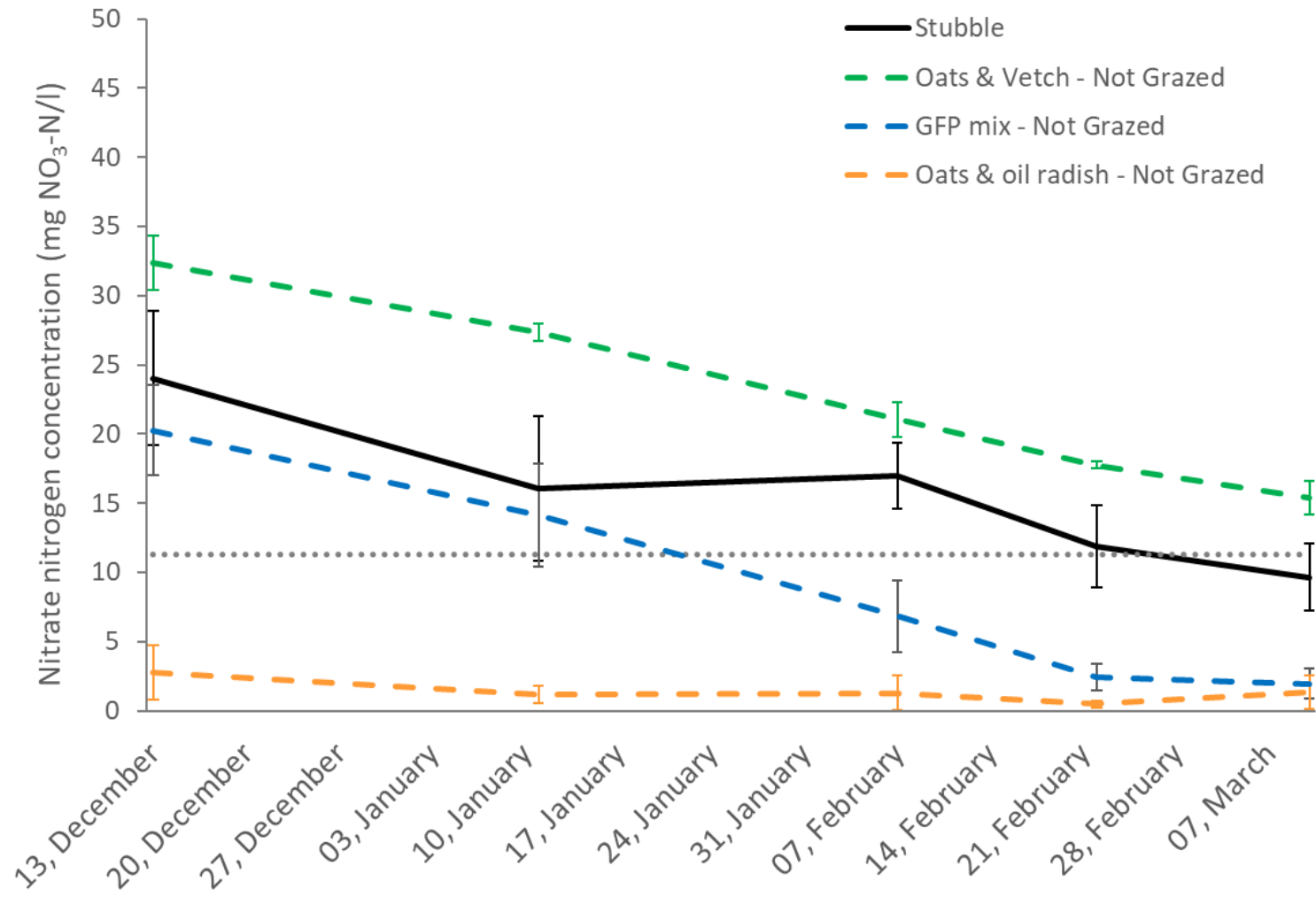
Job title Environment Coordinator

Cover crops	Grazing treatment
Stubble	Not grazed
GFP mix (12 kg/ha): phacelia (4%), vetch (33%), linseed (17%), berseem clover (12%), oil radish (17%), turnip rape (17%)	Grazed vs not grazed 320 ewe lambs (8 months old), grazed trial area 6.5 ha; grazed 2 weeks <ul style="list-style-type: none"> <i>Cover crop grazed to ground level</i>
Oats (80%) & Oil radish (20%) (5 kg/ha)	
Oats (80%) Vetch (20%) (5 kg/ha)	

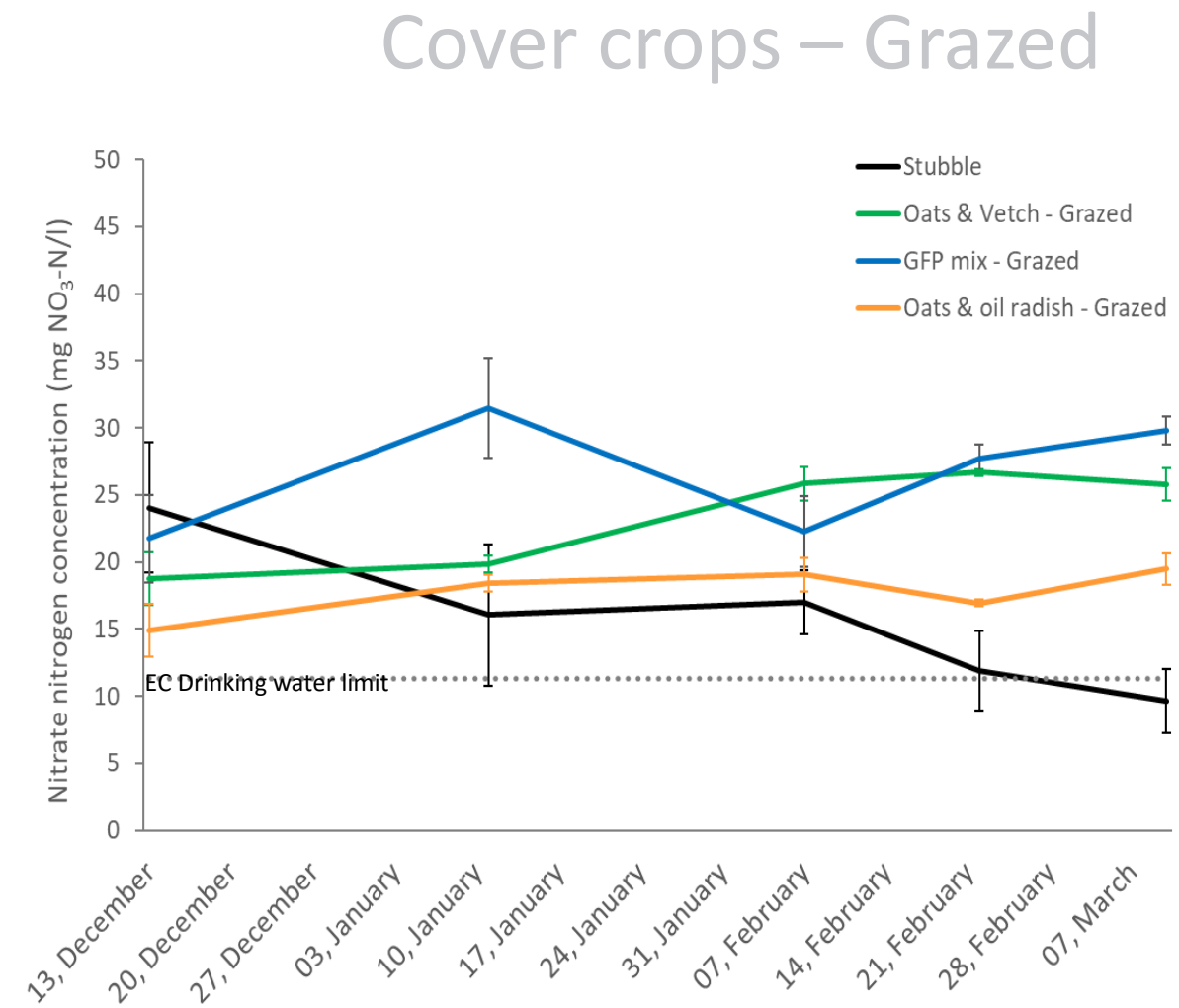


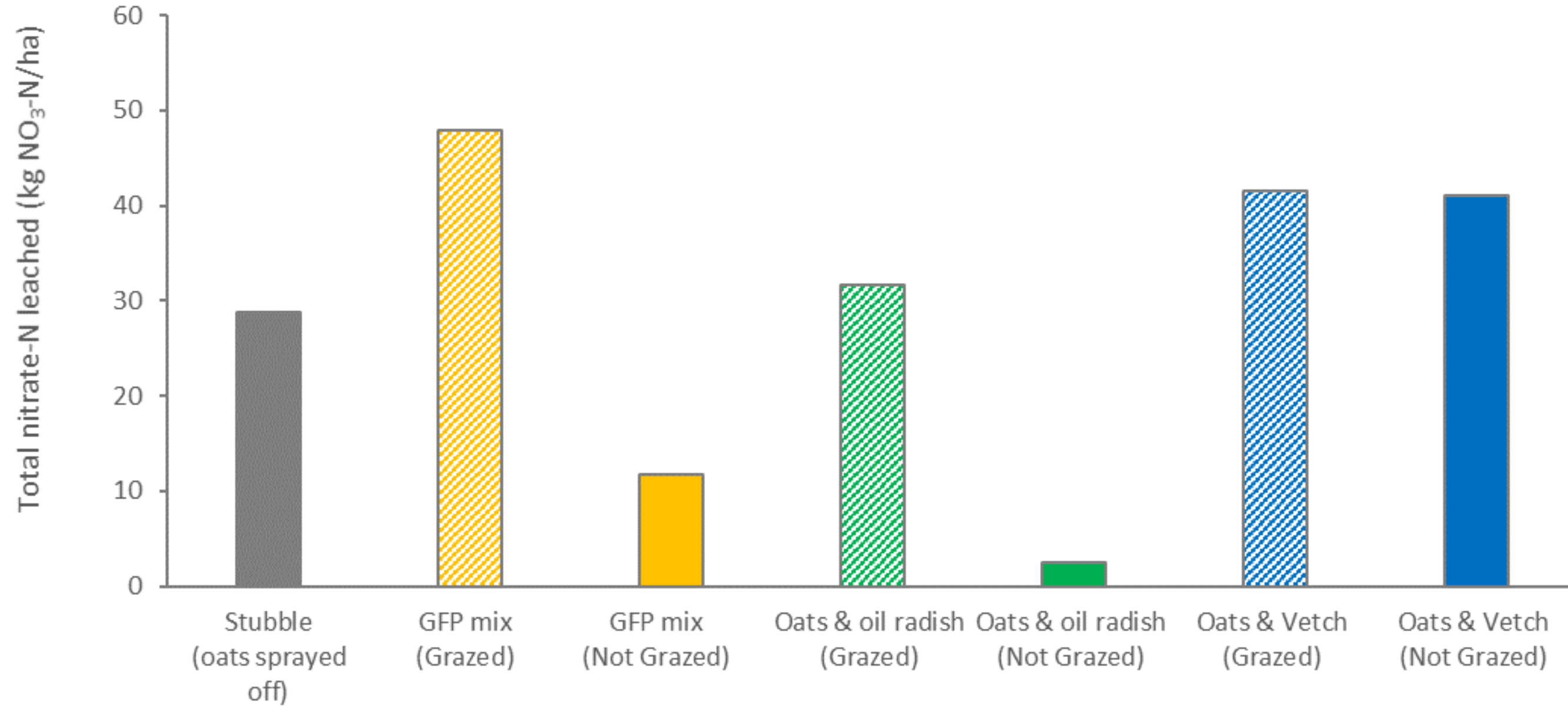
Covers drilled August 2021 (dry conditions); Grazed for 2 weeks at end of November 2021

Cover crops – Not grazed



Cover crops – Grazed





Treatment	Sq of first layer	Depth of first layer (cm)	Sq of second layer	Depth of second layer (cm)
Stubble	2.0	25	-	n/a
GFP mix - Grazed	3.3	12	2.0	13
Oats & oil radish - Grazed	3.0	12	2.2	13
Oats & Vetch - Grazed	2.8	17	2.0	8
GFP mix - Not Grazed	2.3	25	-	n/a
Oats & oil radish - Not Grazed	2.3	21	-	n/a
Oats & Vetch - Not Grazed	2.3	25	-	n/a

Traffic light colour coded following The AHDB/BBRO Soil Health Scorecard:

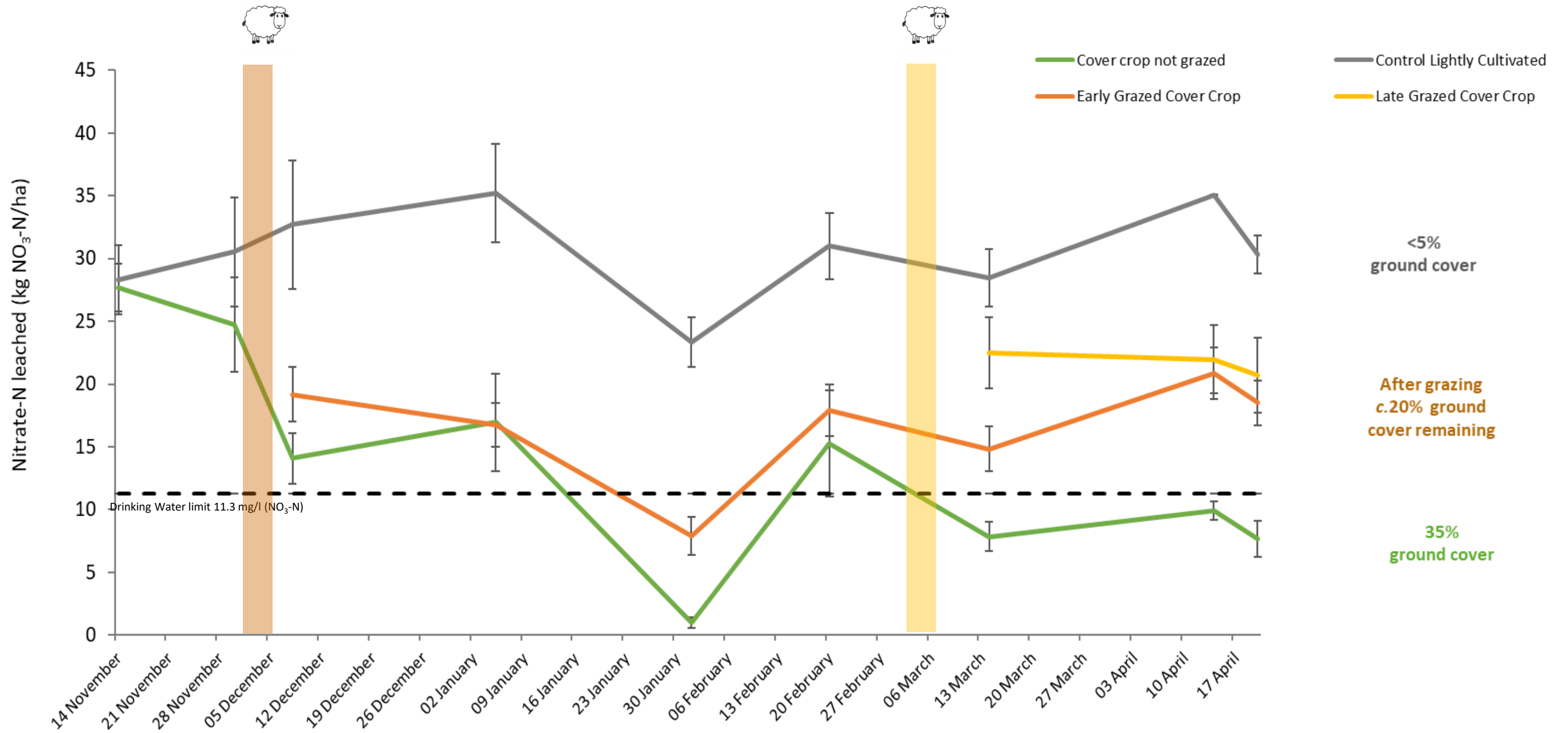
‘Green’ - no action needed; ‘Amber’ - monitor; ‘Red’ - Investigate

Cover crops	Grazing treatment
Stubble – lightly cultivated	Not grazed
Oats (80%) & Oil radish (20%) (5 kg/ha)	‘Early Grazed’ – End November
Oats (80%) & Oil radish (20%) (5 kg/ha)	‘Late Grazed’ – End of February

Drilled 22 August 2022 (dry conditions);



Nitrate leaching concentrations



- *Observations immediately after grazing – little evidence of poaching or damage to soil surface*

Treatment	Sq of first layer	Depth of first layer (cm)	Sq of second layer	Depth of second layer (cm)
Control – lightly cultivated	1.5	20	2	5
Cover crop not grazed	1.5	25	-	n/a
Early Grazed Cover Crop	1.8	21	1.5	11
Late Grazed Cover Crop	1.7	20	1.5	15

Traffic light colour coded following The AHDB/BBRO Soil Health Scorecard:

‘Green’ - no action needed; ‘Amber’ - monitor; ‘Red’ - Investigate

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