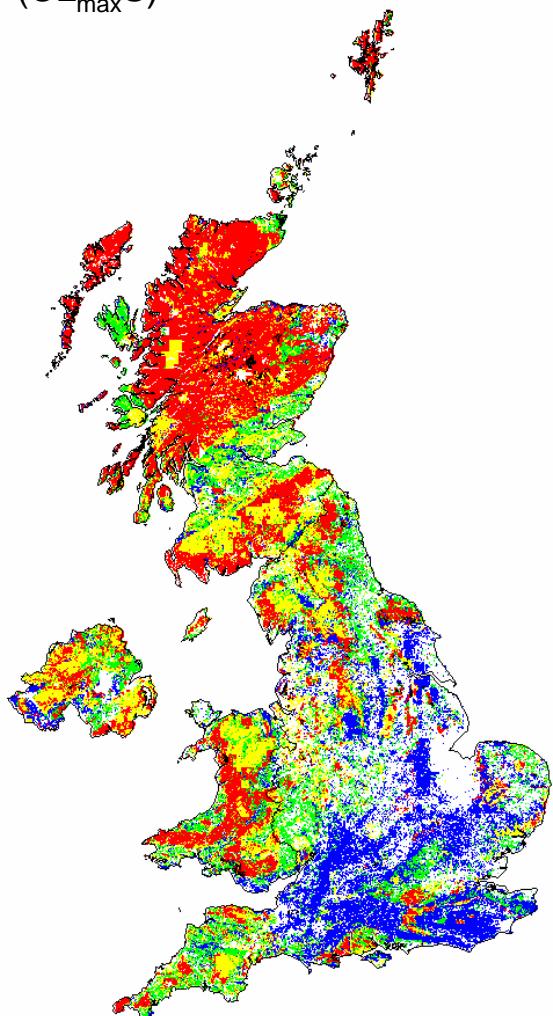


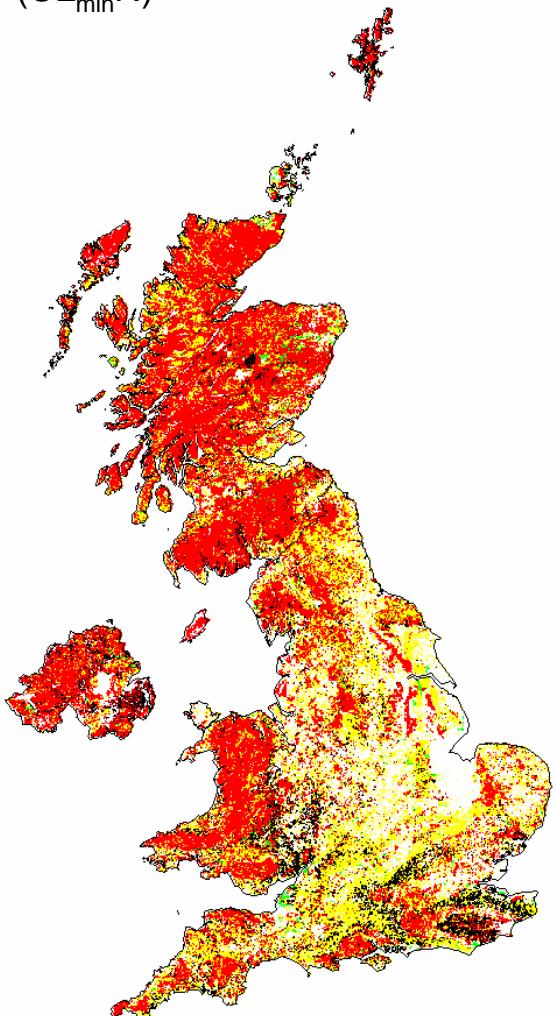
Figure 2.1

## 5<sup>th</sup>-percentile acidity critical loads:

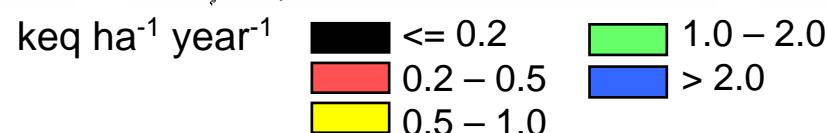
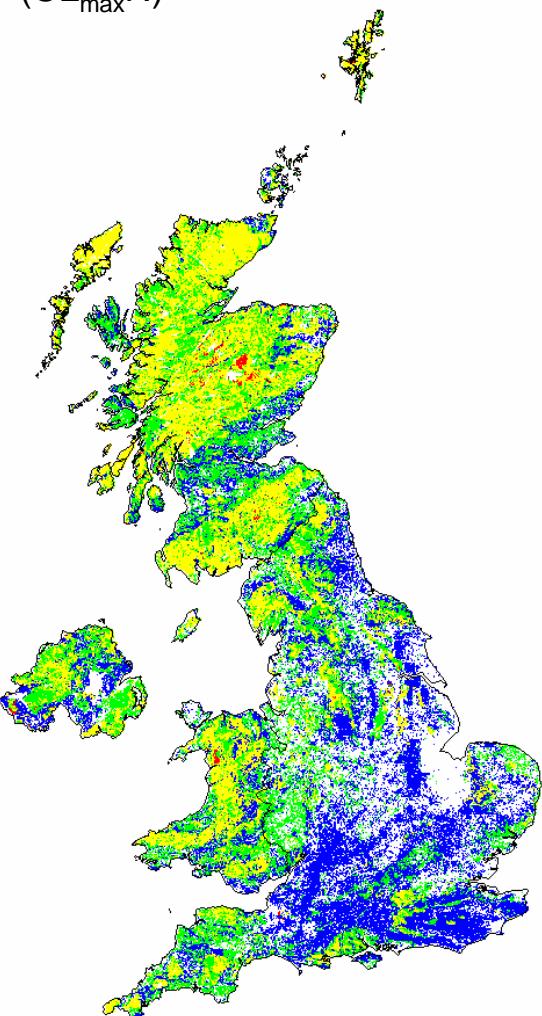
Maximum critical load of sulphur  
(CL<sub>max</sub>S)



Minimum critical load of nitrogen  
(CL<sub>min</sub>N)



Maximum critical load of nitrogen  
(CL<sub>max</sub>N)



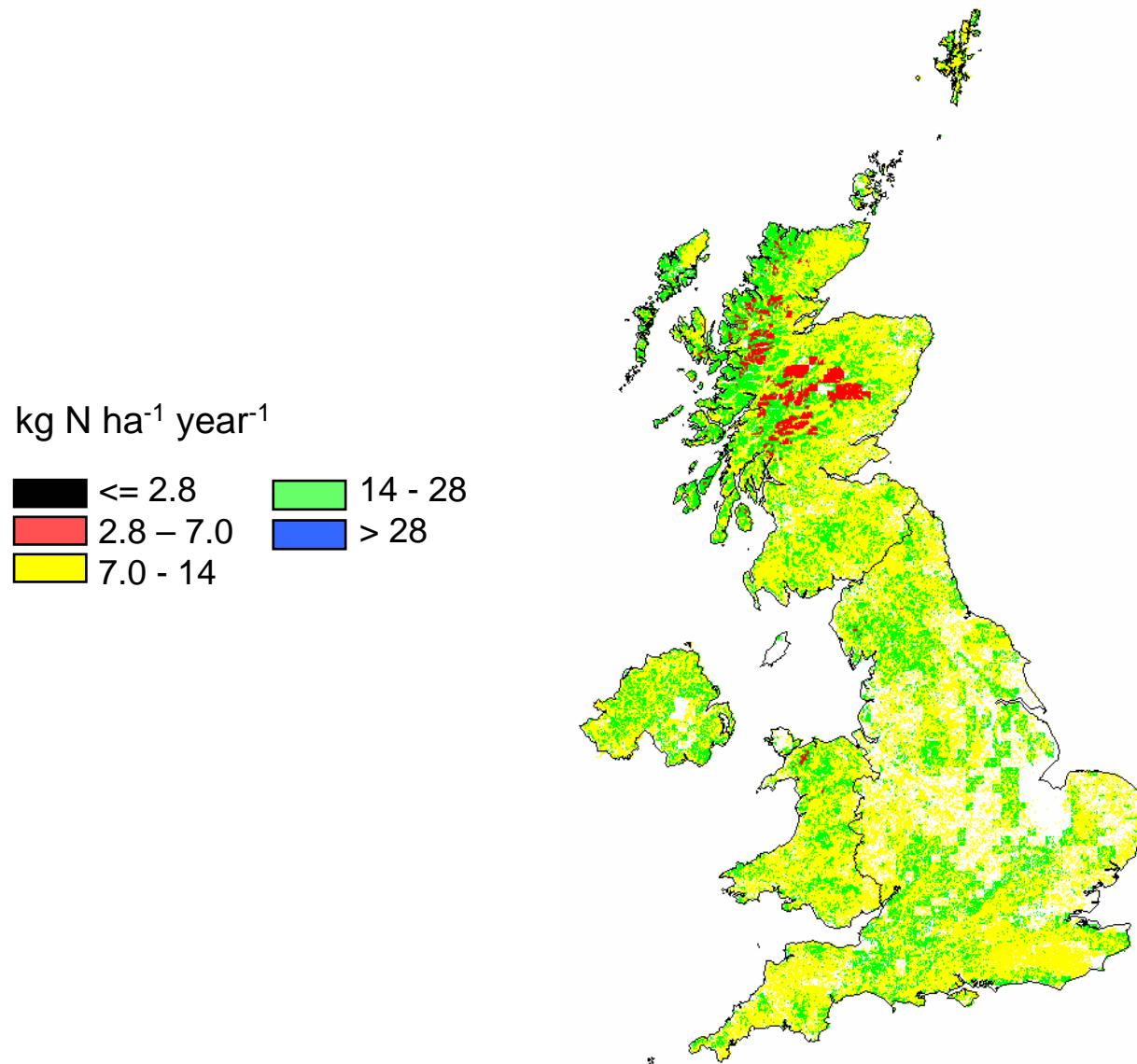
5<sup>th</sup>-percentile critical load of nutrient nitrogen

Figure 2.3

Total acid deposition ( $S + NO_x + NH_x$ ) moorland:

1995-97

1999-01

2010

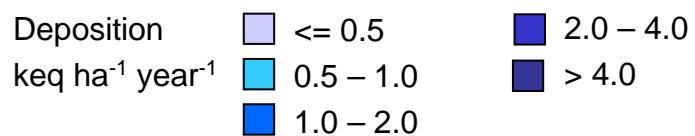
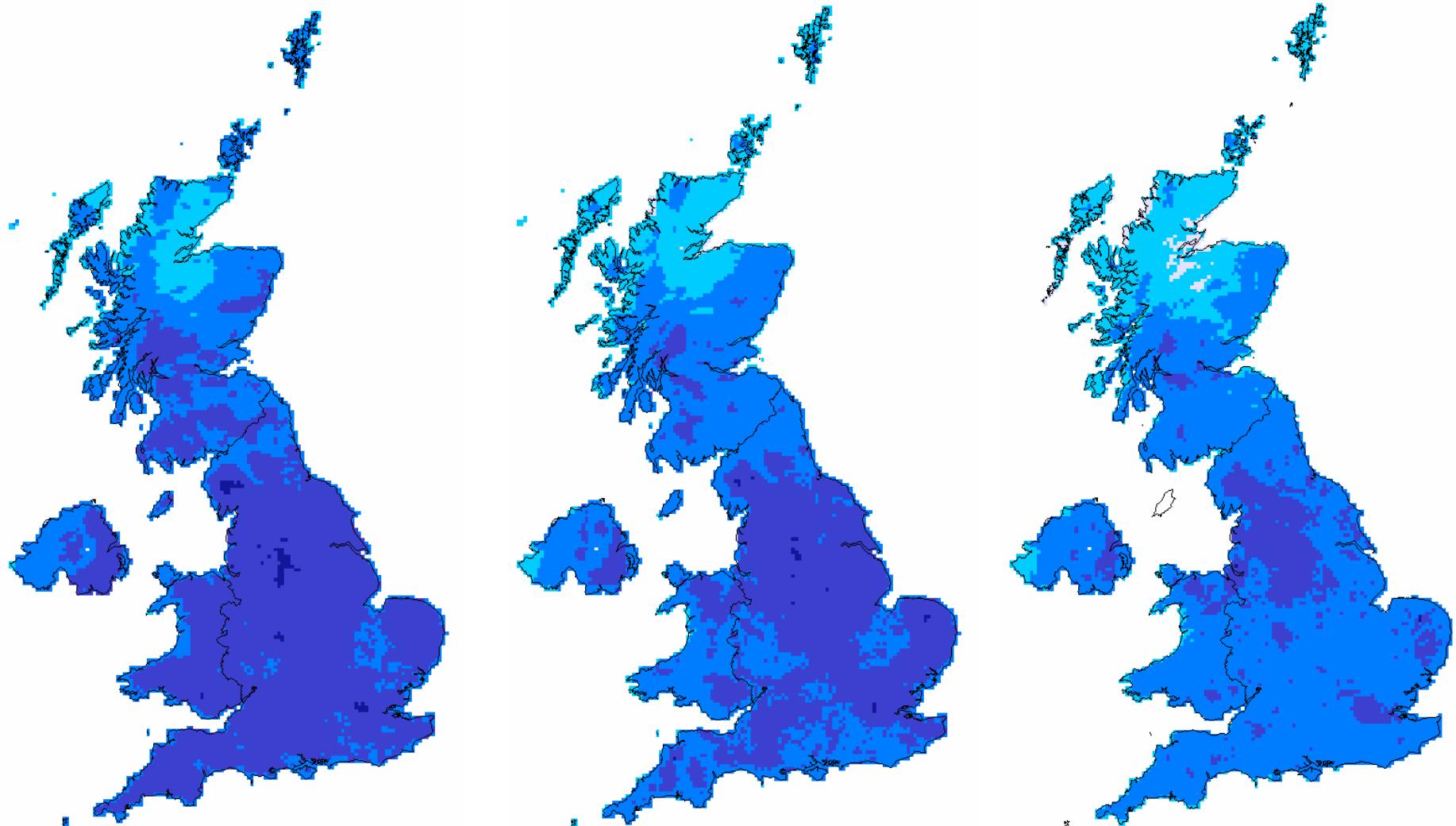


Figure 2.4

Total nitrogen deposition ( $\text{NO}_x + \text{NH}_x$ ) moorland:

1995-97

1999-01

2010

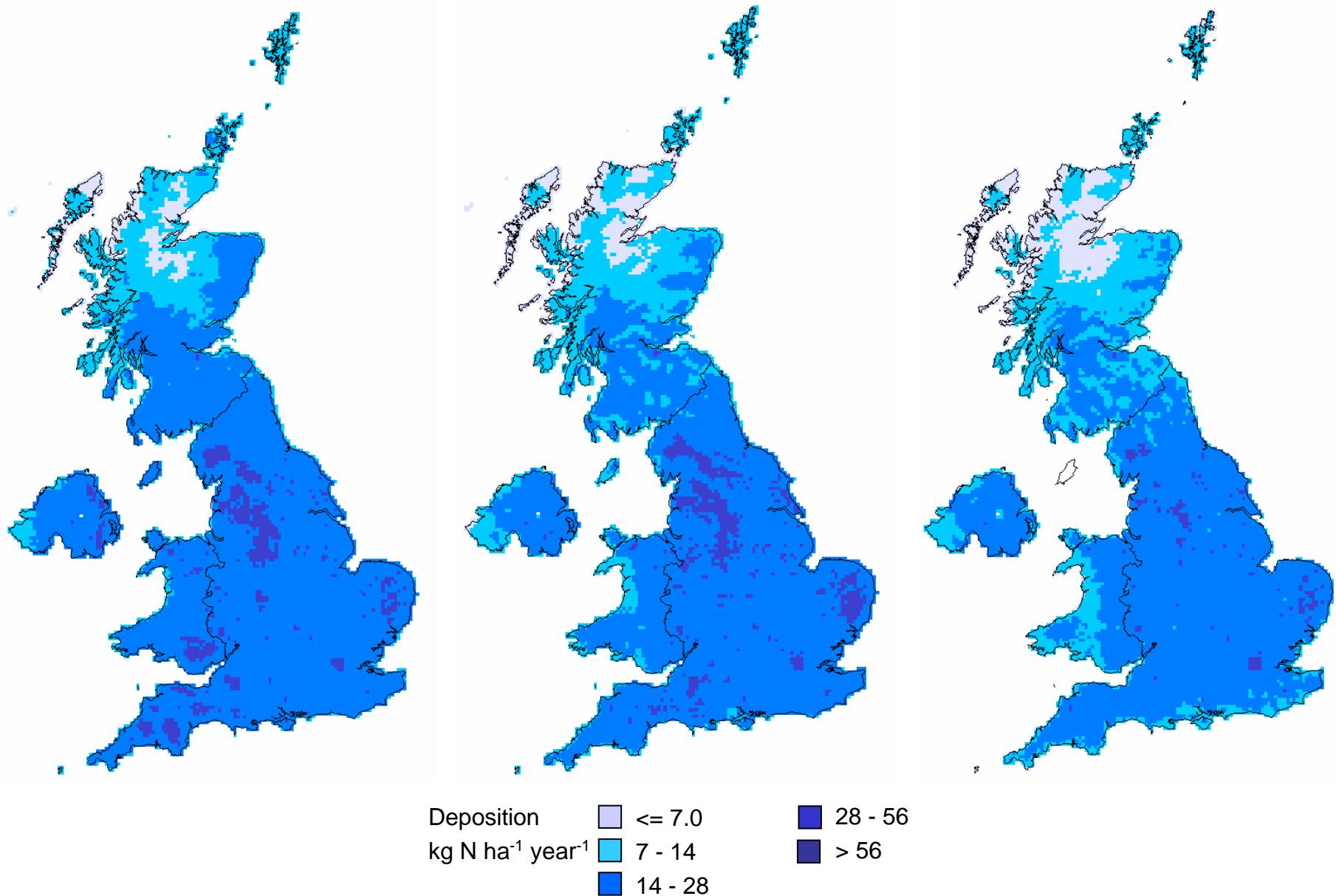
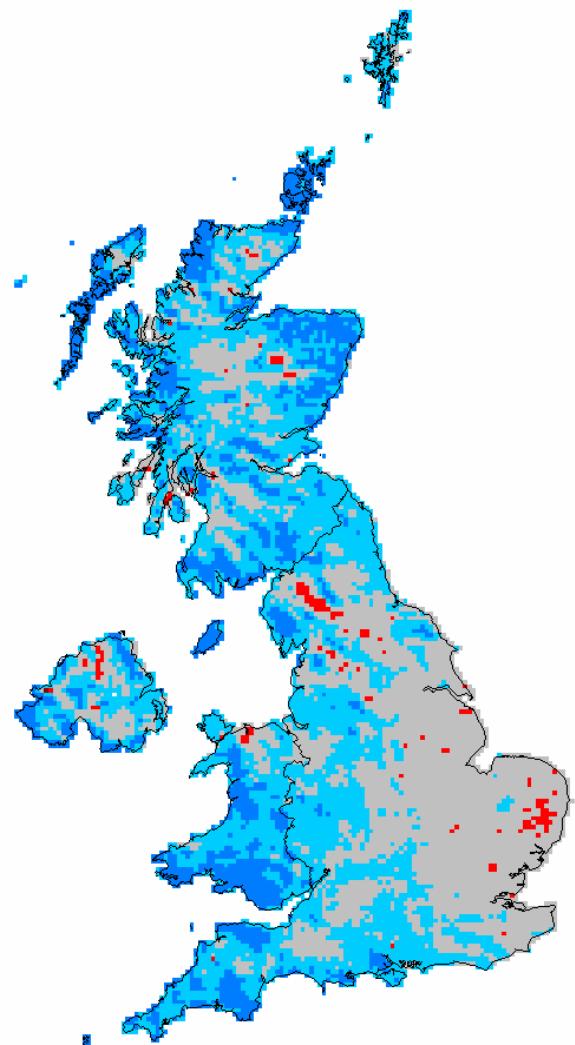


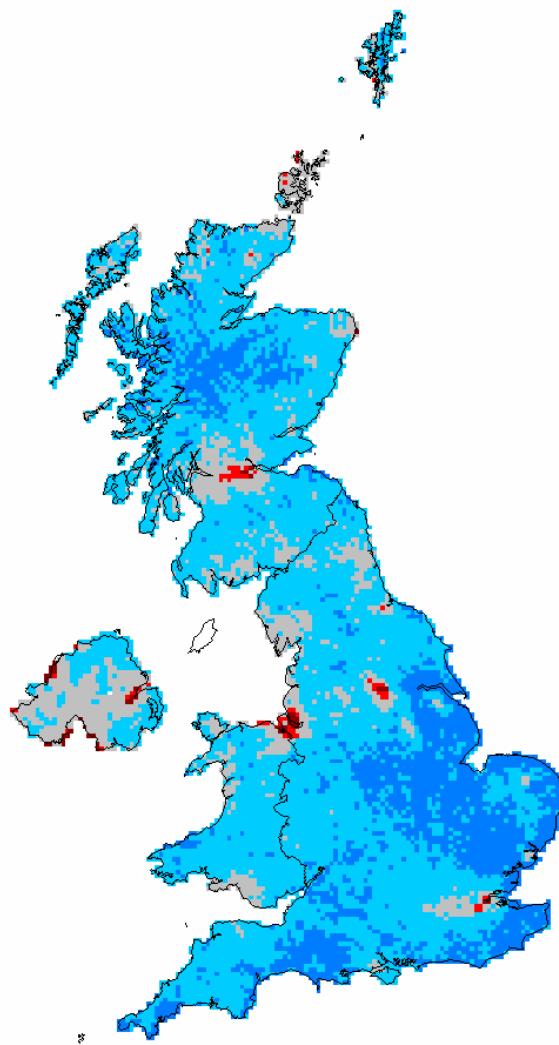
Figure 2.5

## Changes in acid deposition (moorland) over time:

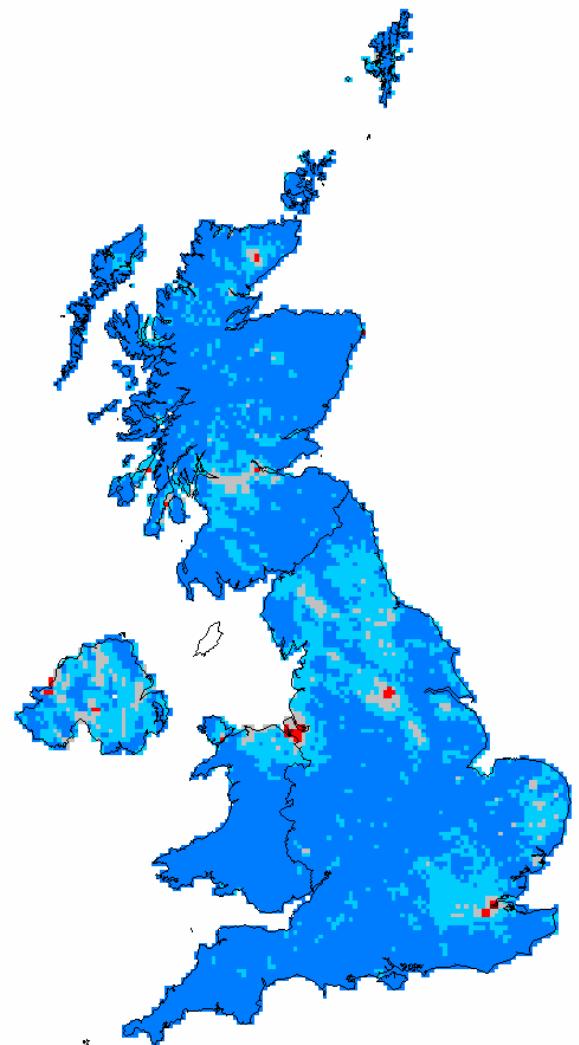
1999-01 / 1995-97



2010 / 1999-01



2010 / 1995-97



Ratio

< 0.75
0.76 – 0.90
0.91 – 1.10

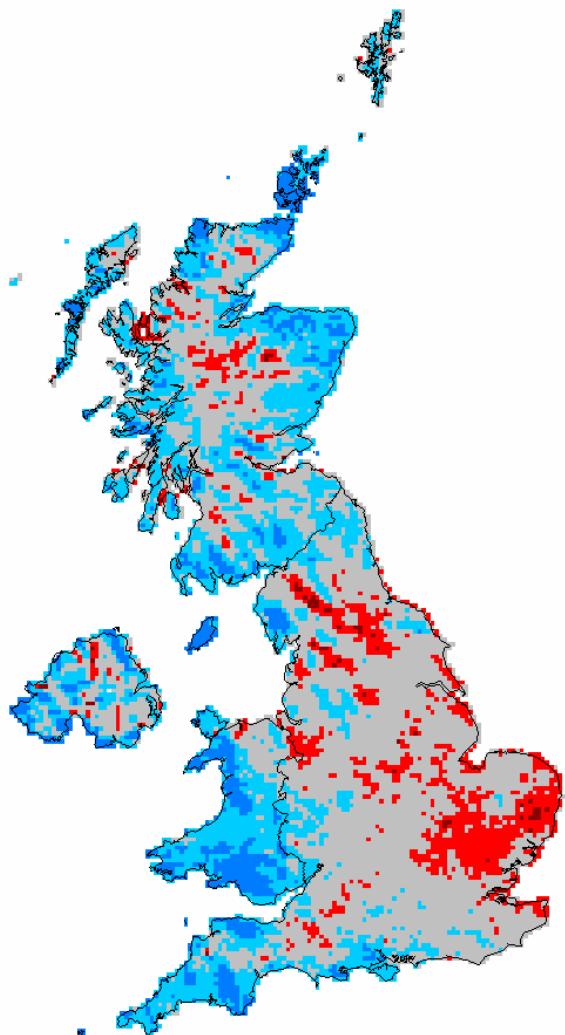
1.11 – 1.25  
> 1.25

Ratios < 1 denote decreases in deposition  
Ratios > 1 denote increases in deposition

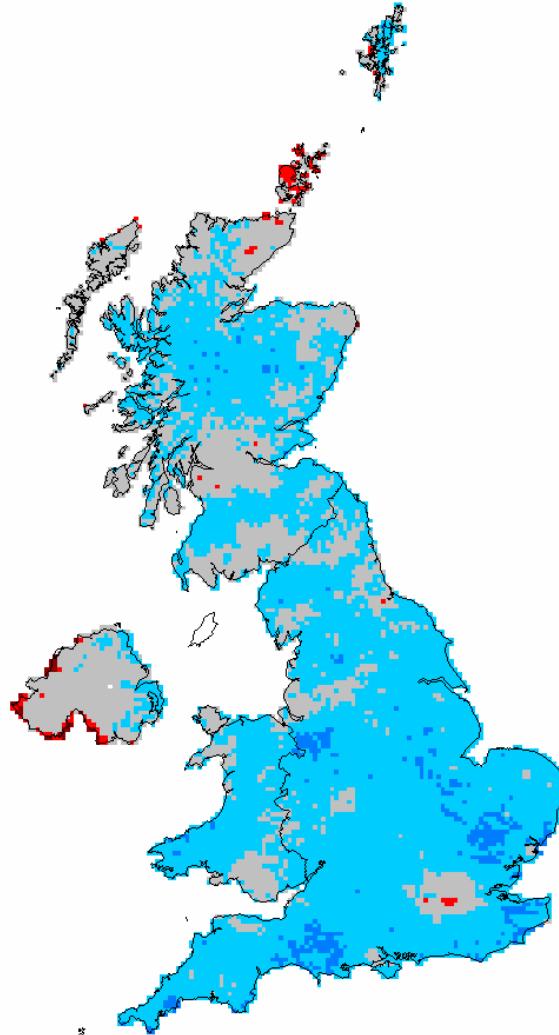
Figure 2.6

## Changes in nitrogen deposition (moorland) over time:

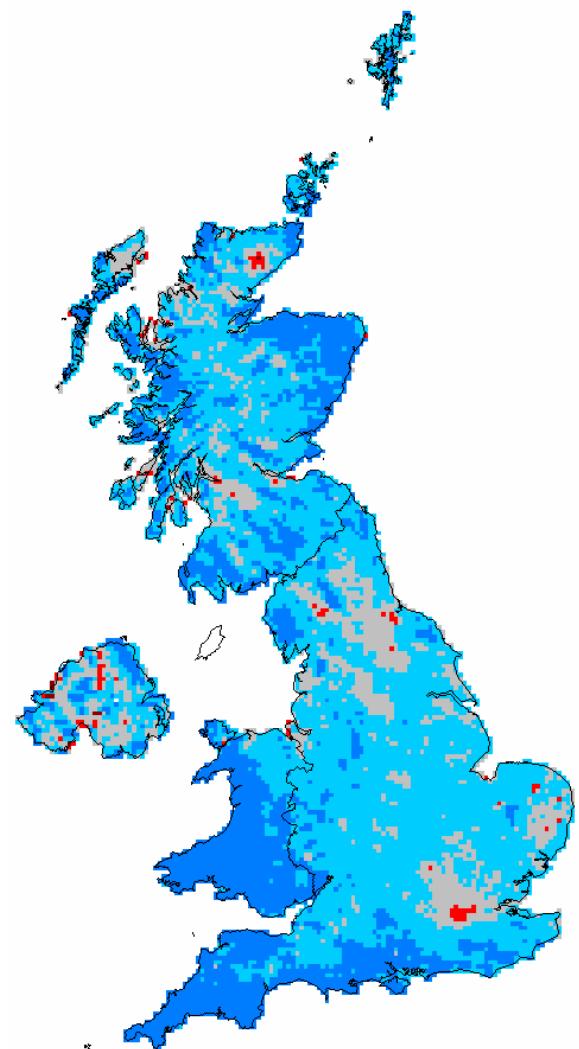
1999-01 / 1995-97



2010 / 1999-01



2010 / 1995-97

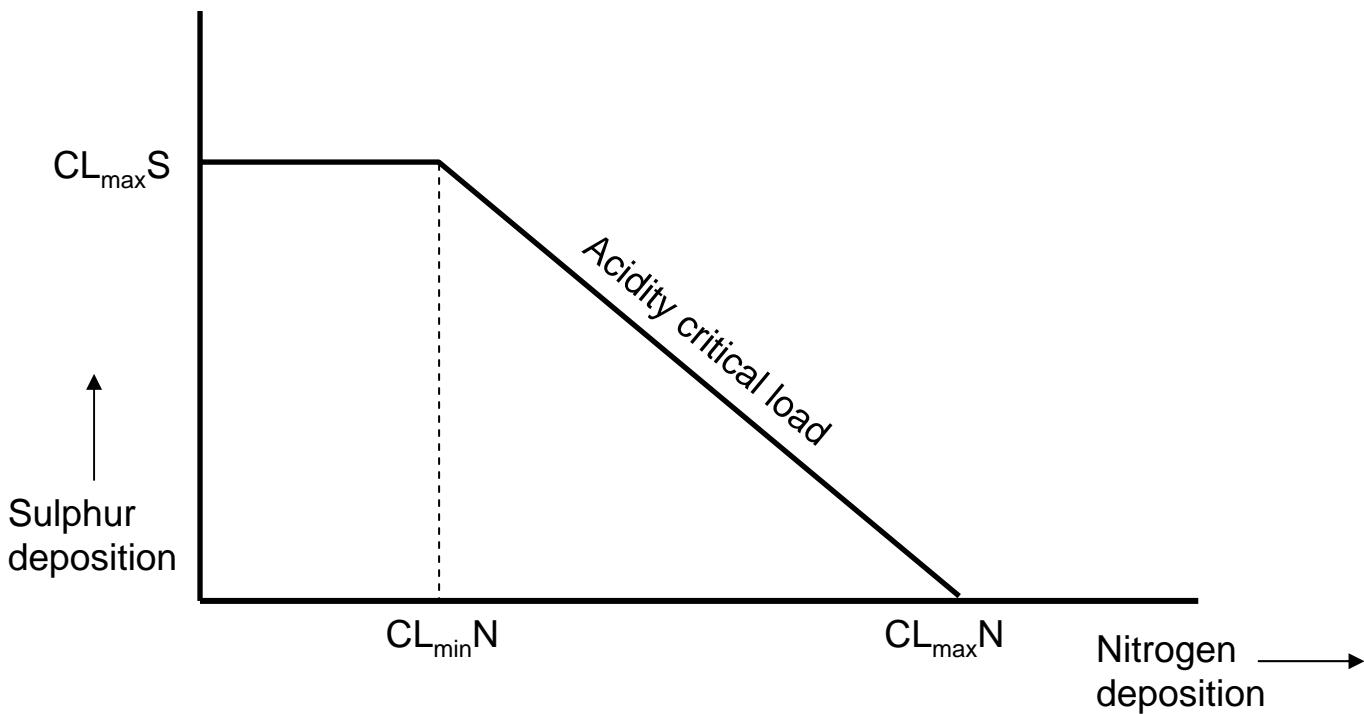


Ratio  
■ < 0.75  
■ 0.76 – 0.90  
■ 0.91 – 1.10

■ 1.11 – 1.25  
■ > 1.25

Ratios < 1 denote decreases in deposition  
Ratios > 1 denote increases in deposition

## The Acidity Critical Loads Function (CLF)



$CL_{max}S$  = maximum critical load of sulphur  
 = acidity critical load taking into account base cation deposition and removal

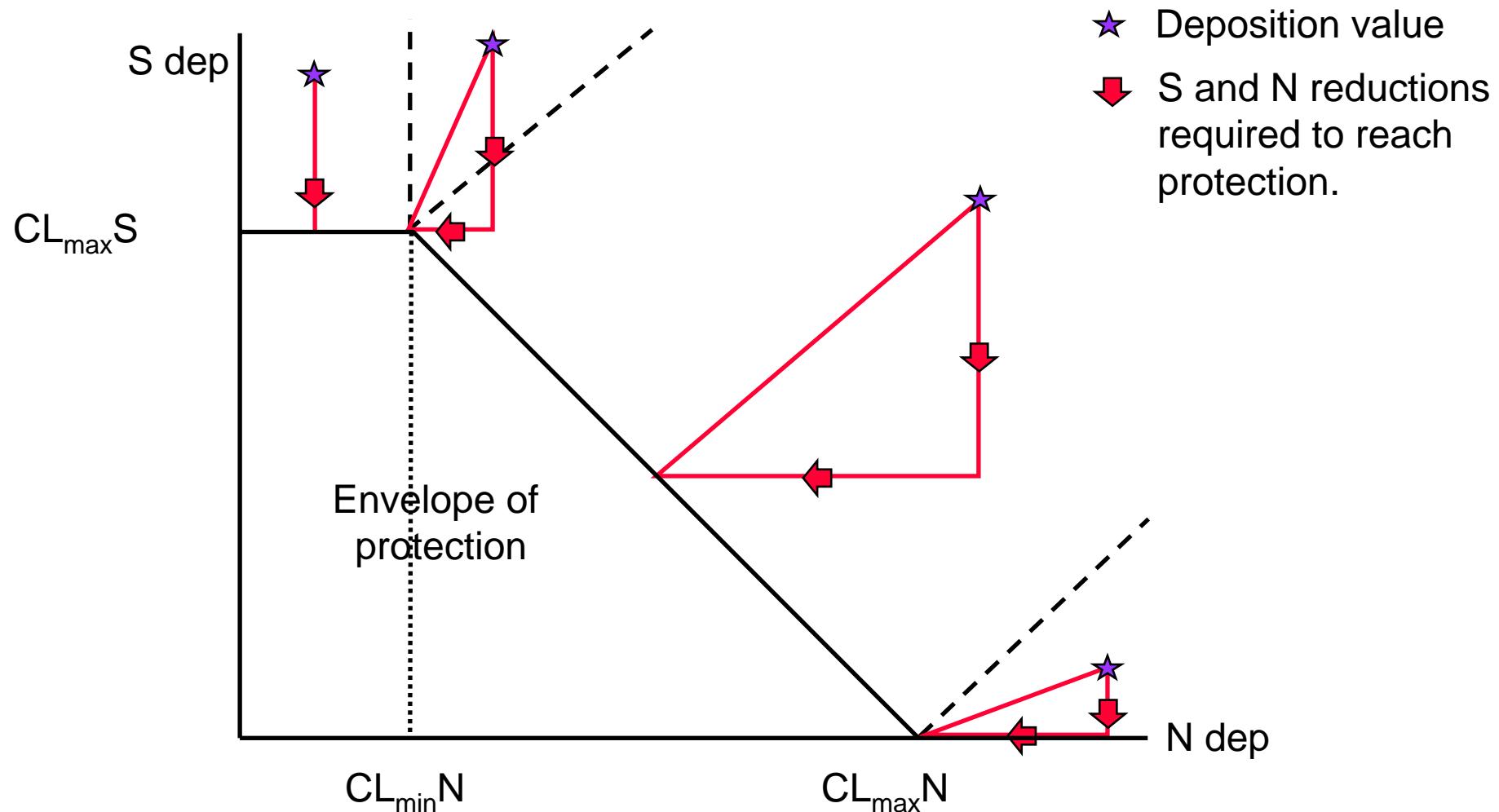
$CL_{min}N$  = minimum critical load of nitrogen  
 = sum of long-term nitrogen removal processes, eg, nitrogen uptake, immobilisation

$CL_{max}N$  = maximum critical load of nitrogen  
 = sum of  $CL_{max}S$  and  $CL_{min}N$

Refer to Section 4 of the 2004 Update to UK Critical Loads (Hall et al, 2004) for further information.

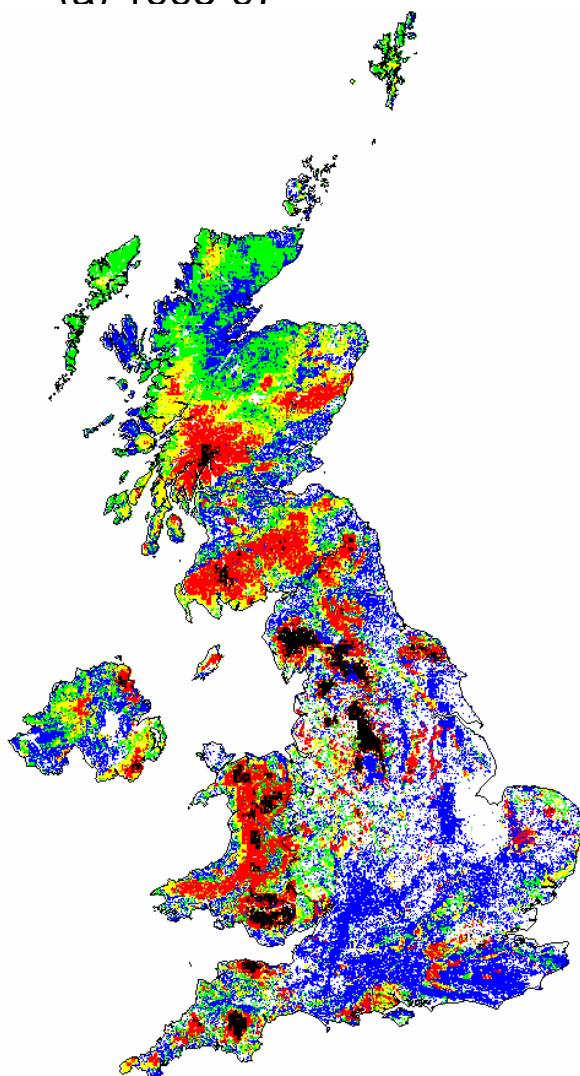
Figure 3.2

## Calculating acidity exceedances using the CLF

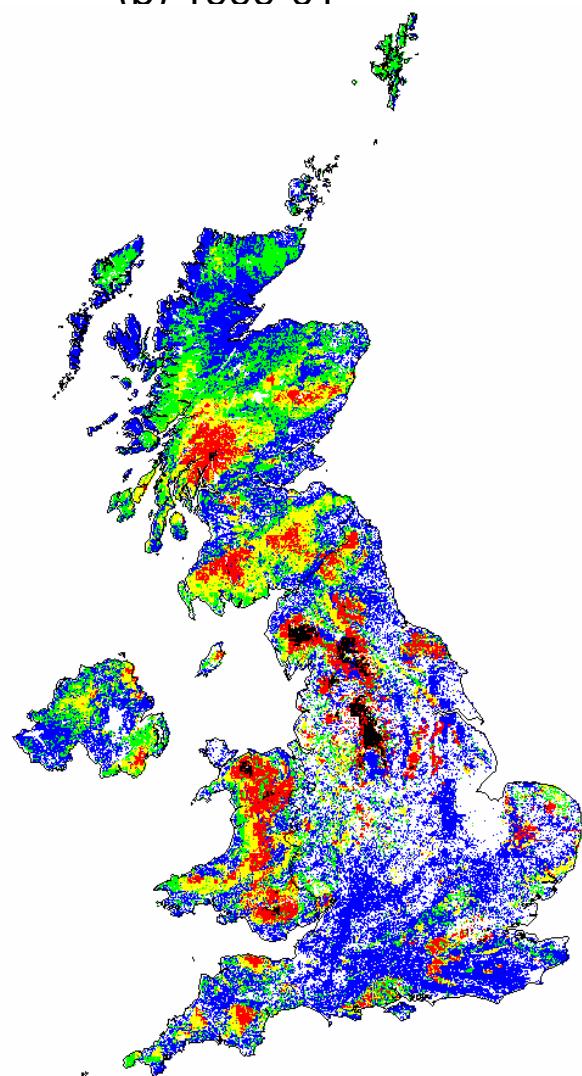


Exceedance of 5<sup>th</sup>-percentile acidity critical loads by total acid deposition for:

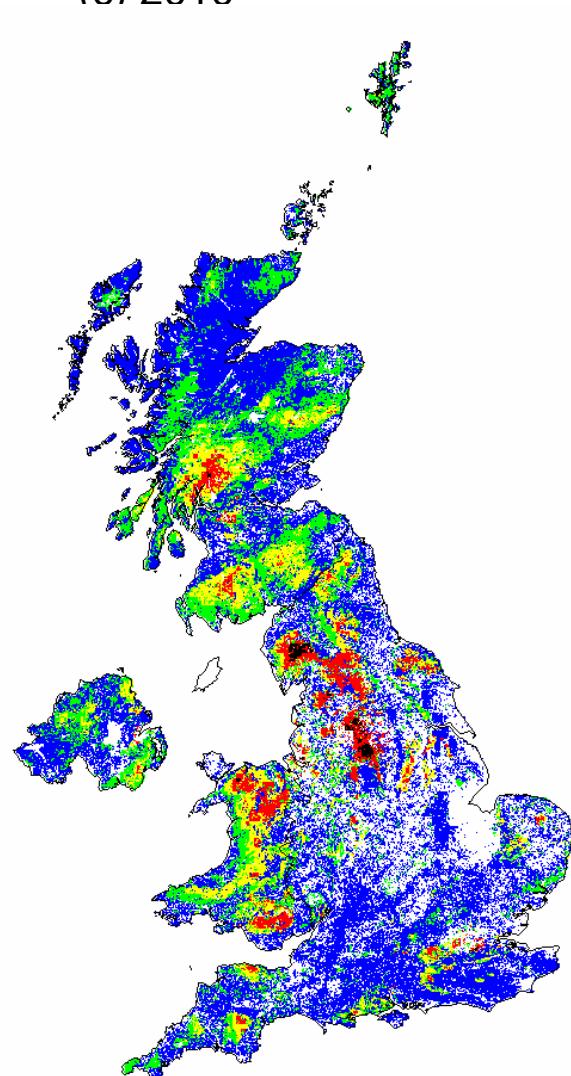
(a) 1995-97



(b) 1999-01



(c) 2010



Exceedance  
keq ha<sup>-1</sup> year<sup>-1</sup>

not exceeded	1.0 - 2.0
0.0 - 0.5	> 2.0
0.5 - 1.0	

Figure 4.2

### Percentage area of habitat exceeded for acidity in UK

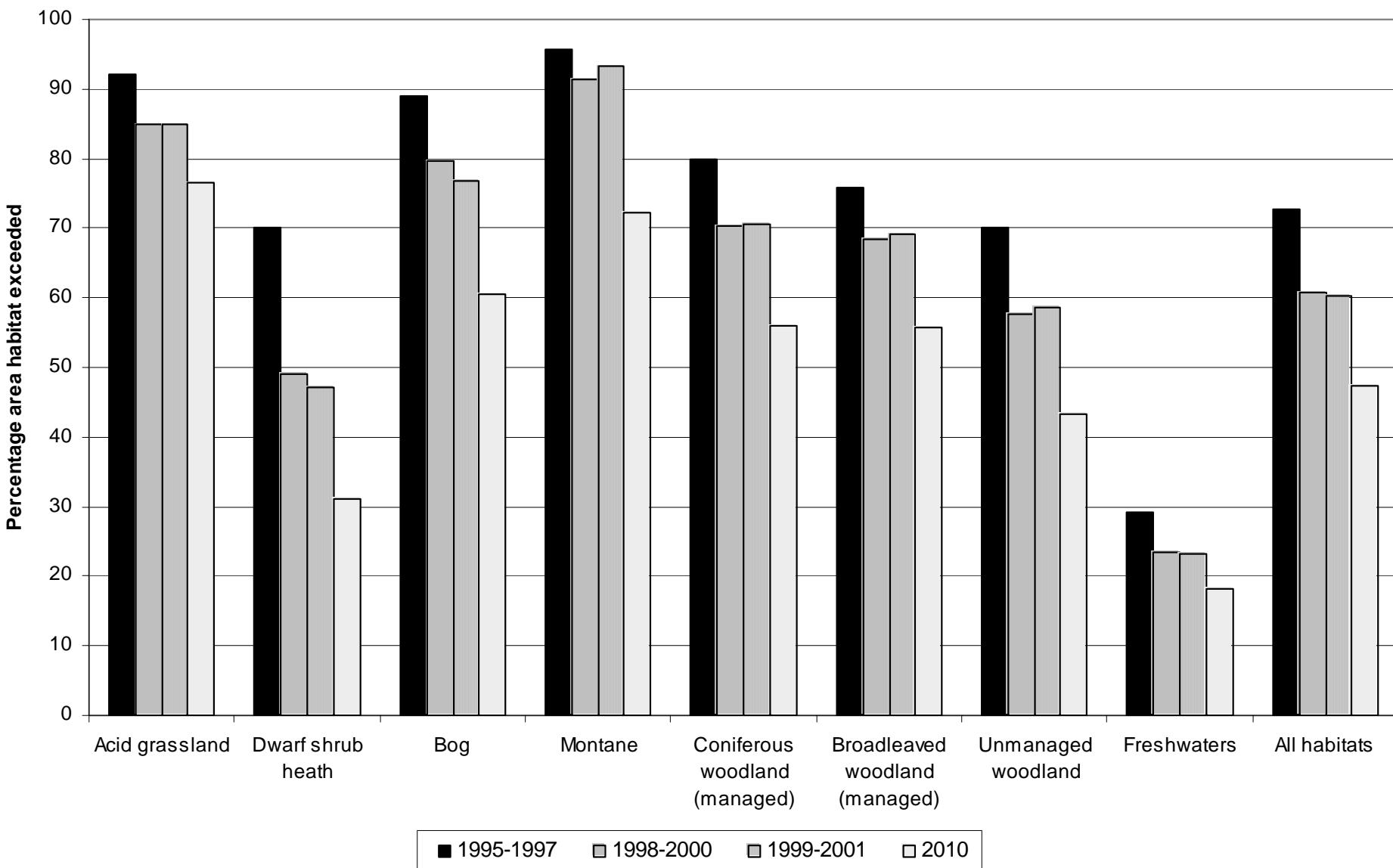


Figure 4.3

Exceedance of 5<sup>th</sup>-percentile nutrient nitrogen critical loads by total nitrogen deposition for:

(a) 1995-97

(b) 1999-01

(c) 2010

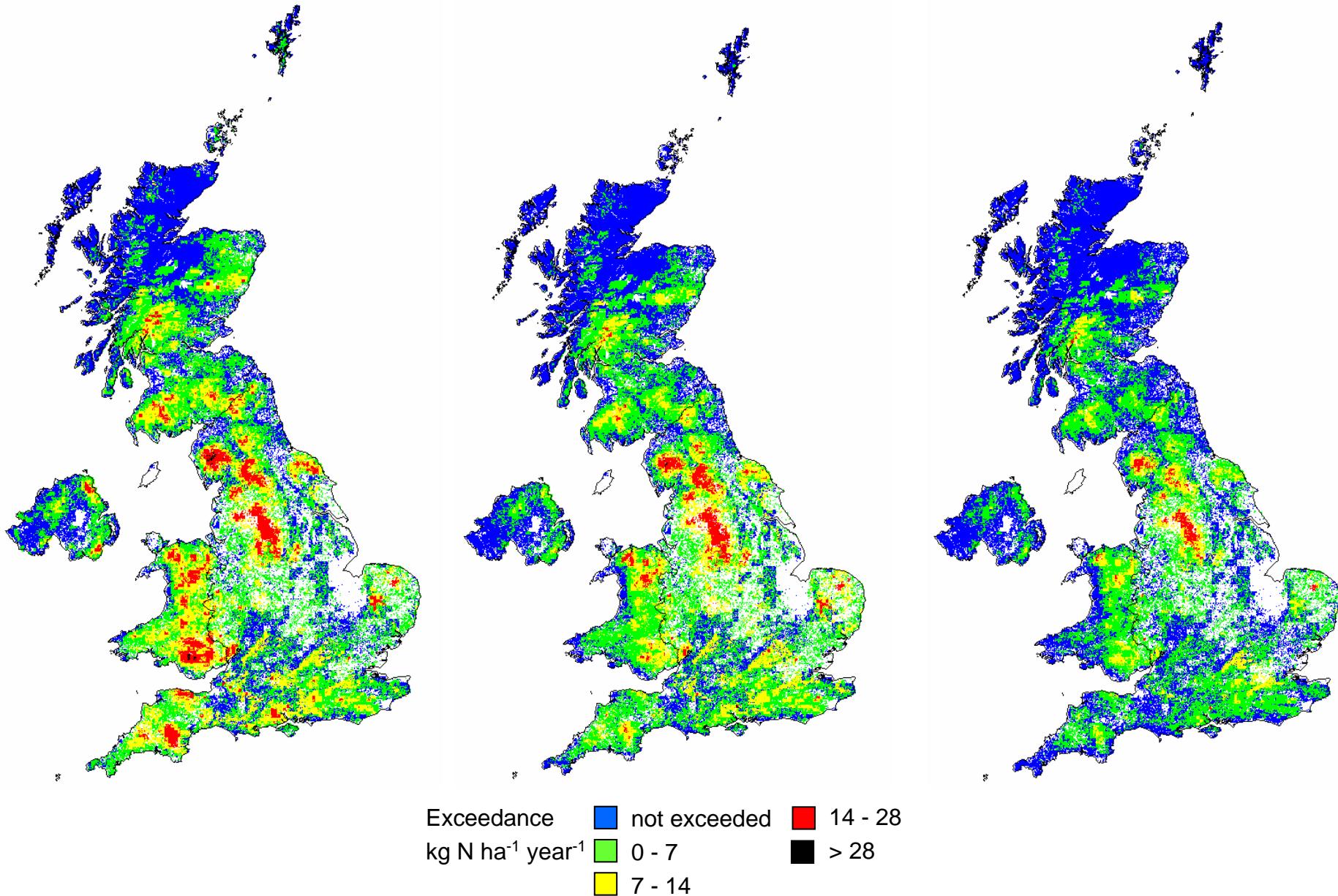


Figure 4.4

### Percentage area habitats exceeded for nutrient N in UK

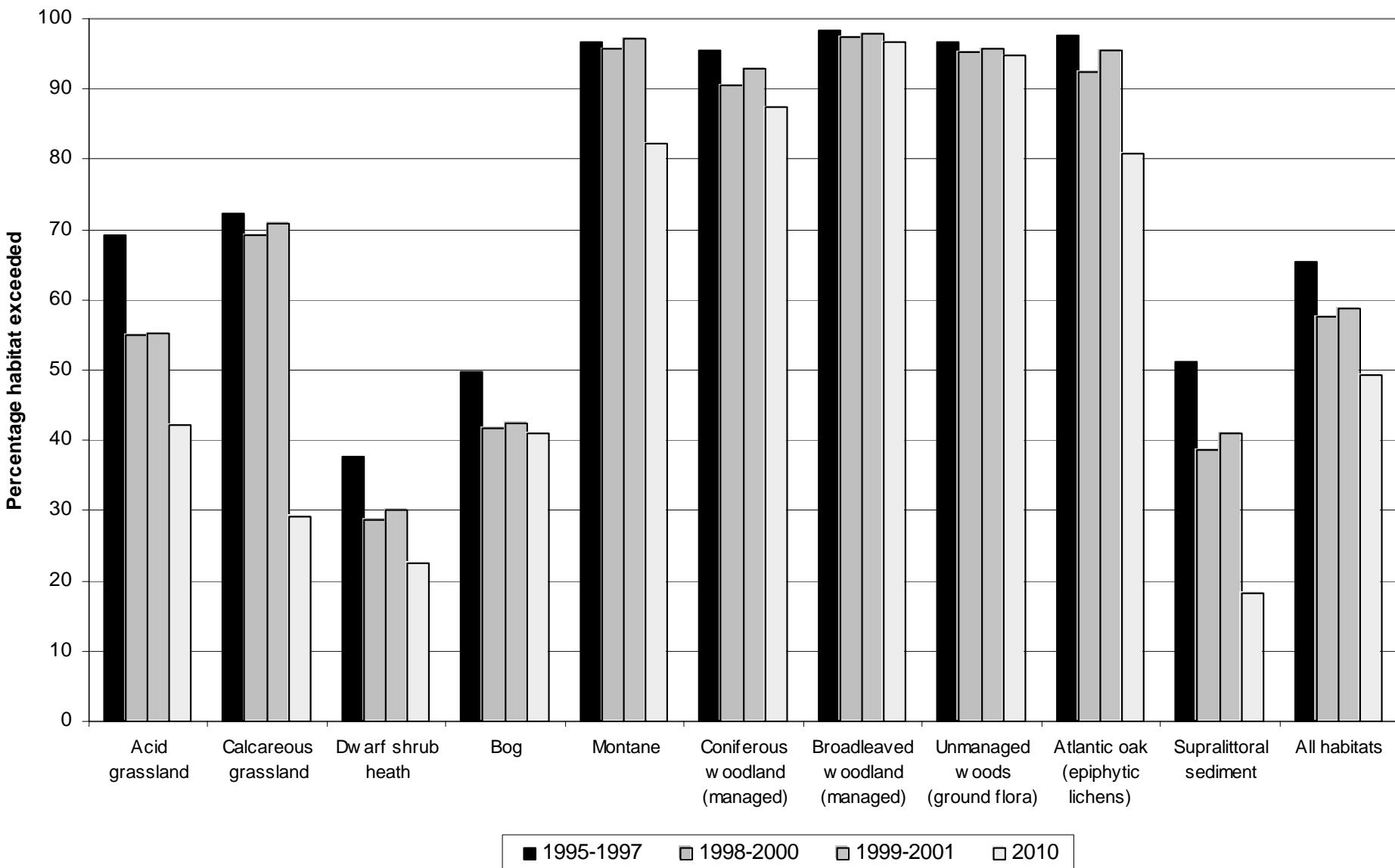


Figure 5.1

### Percentage area of habitat exceeded for acidity in England

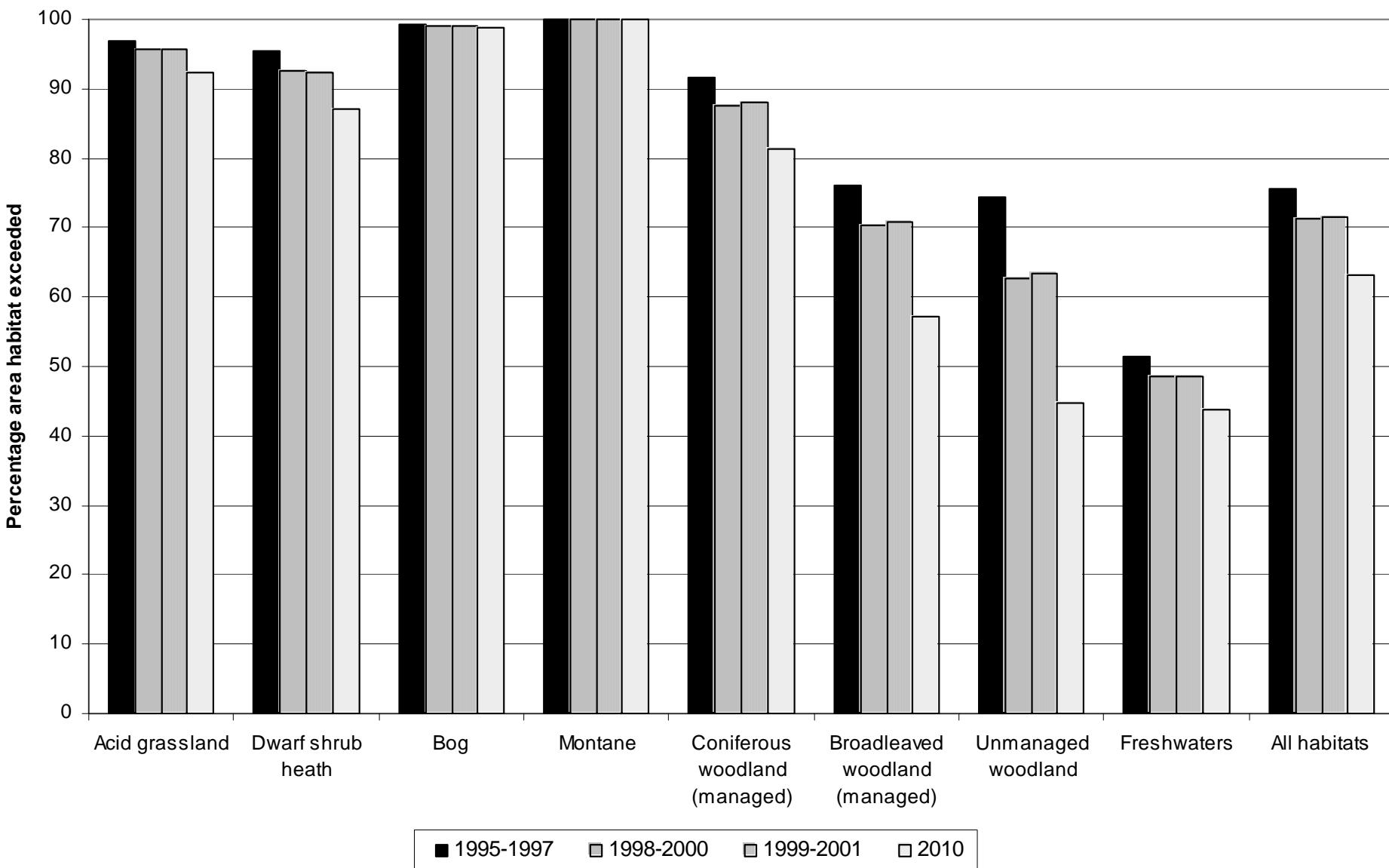


Figure 5.2

### Percentage habitat area exceeded for nutrient N in England

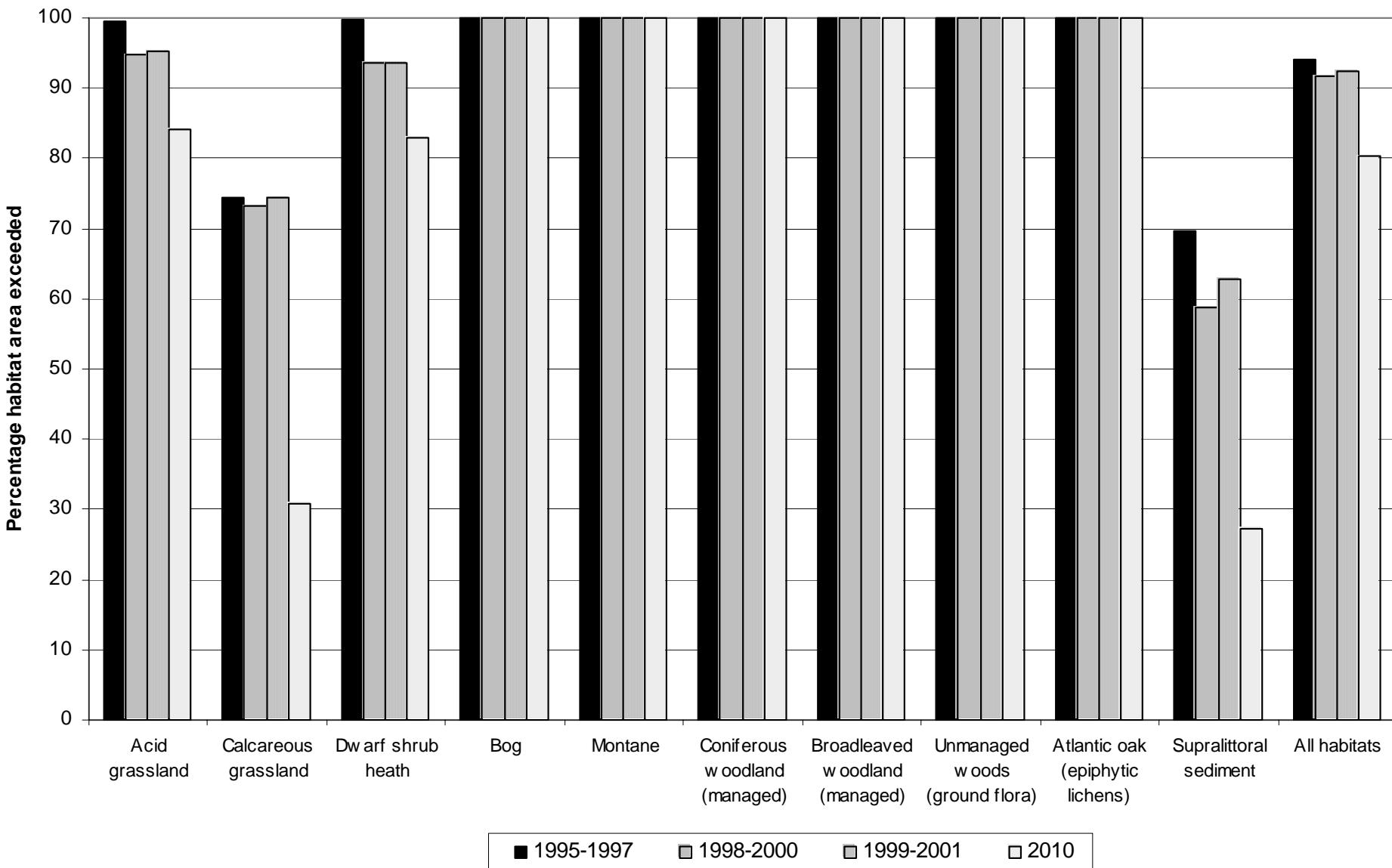


Figure 6.1

### Percentage area of habitat exceeded for acidity in Wales

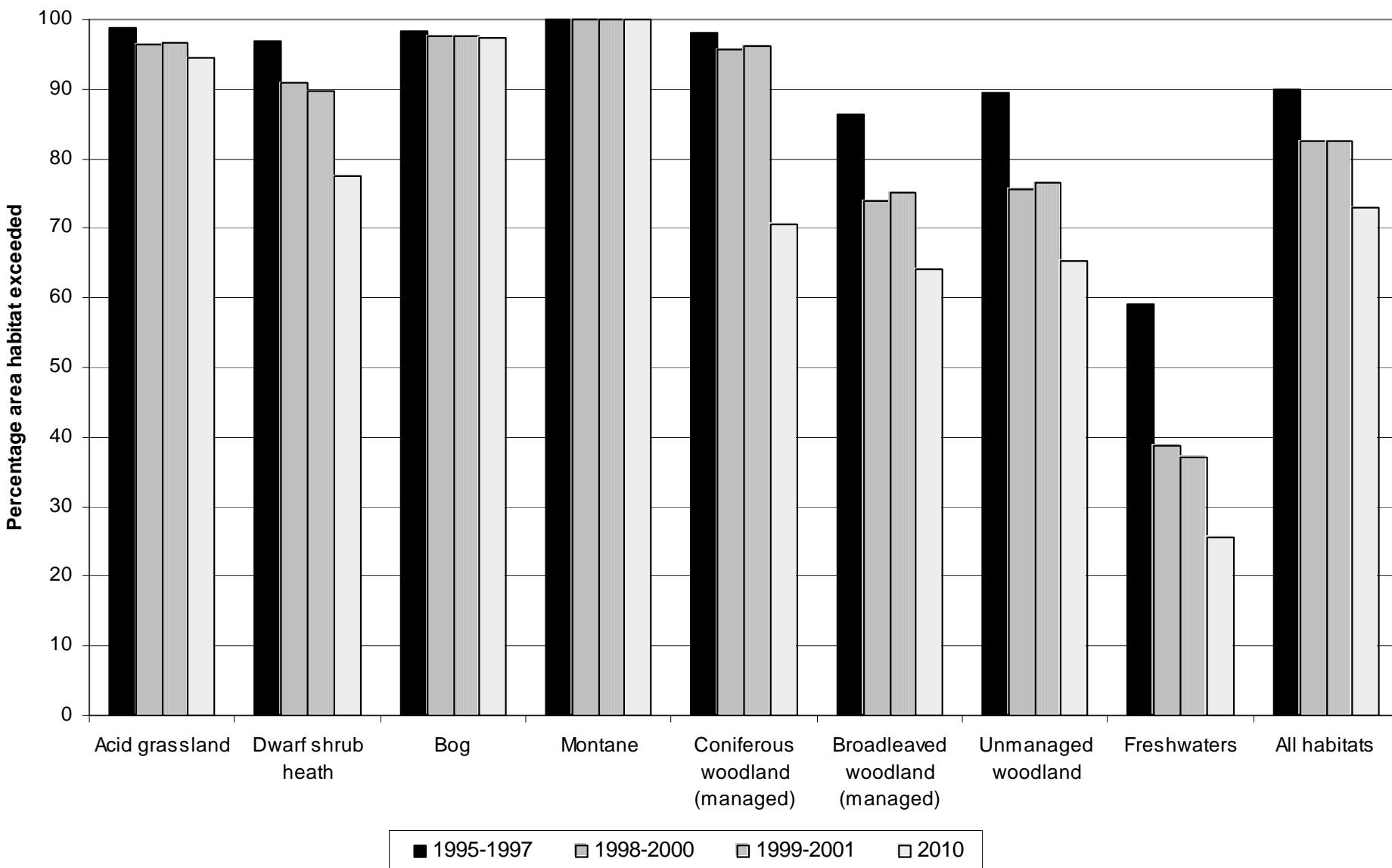


Figure 6.2

### Percentage habitat area exceeded for nutrient N in Wales

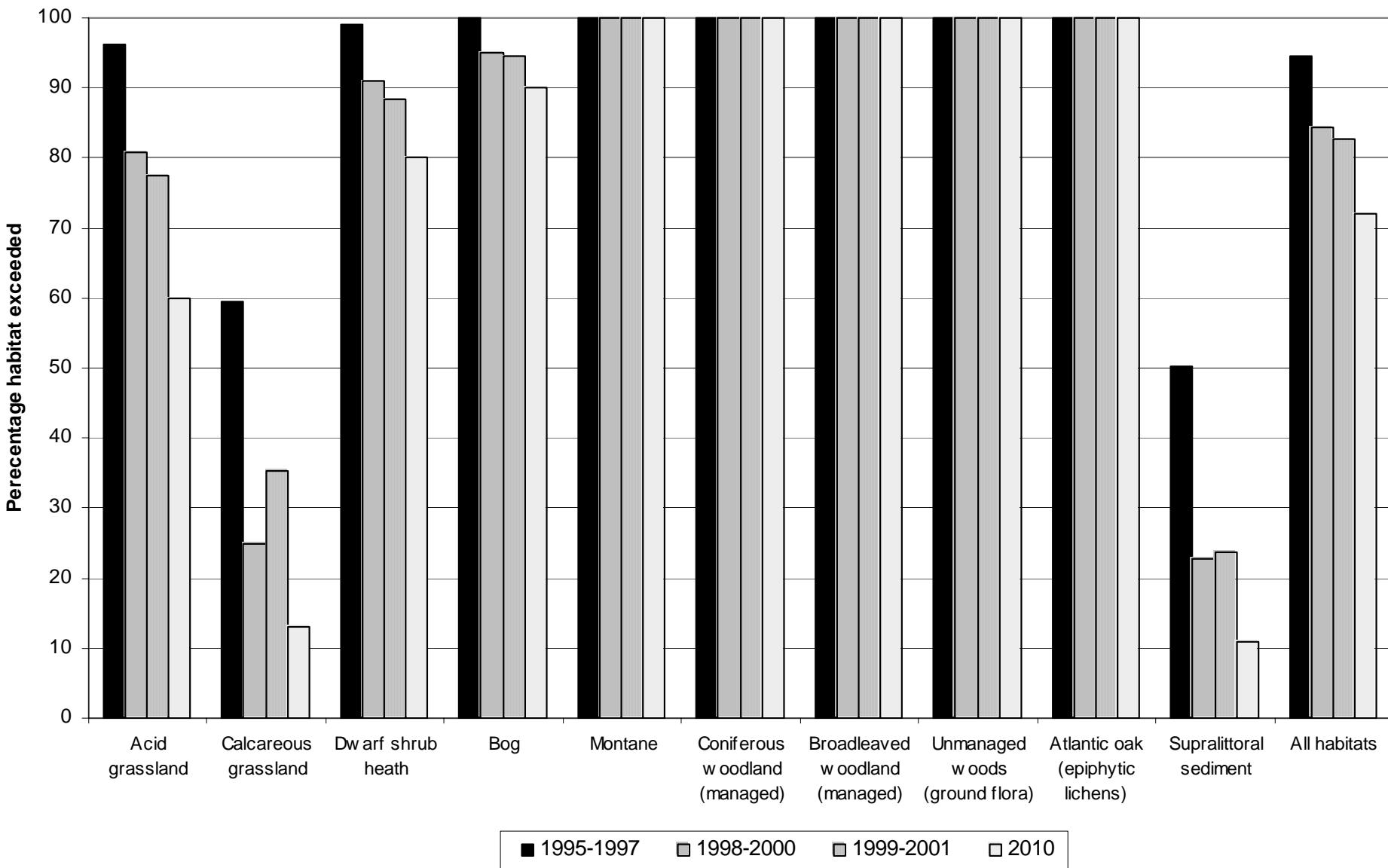


Figure 7.1

### Percentage area of habitat exceeded for acidity in Scotland

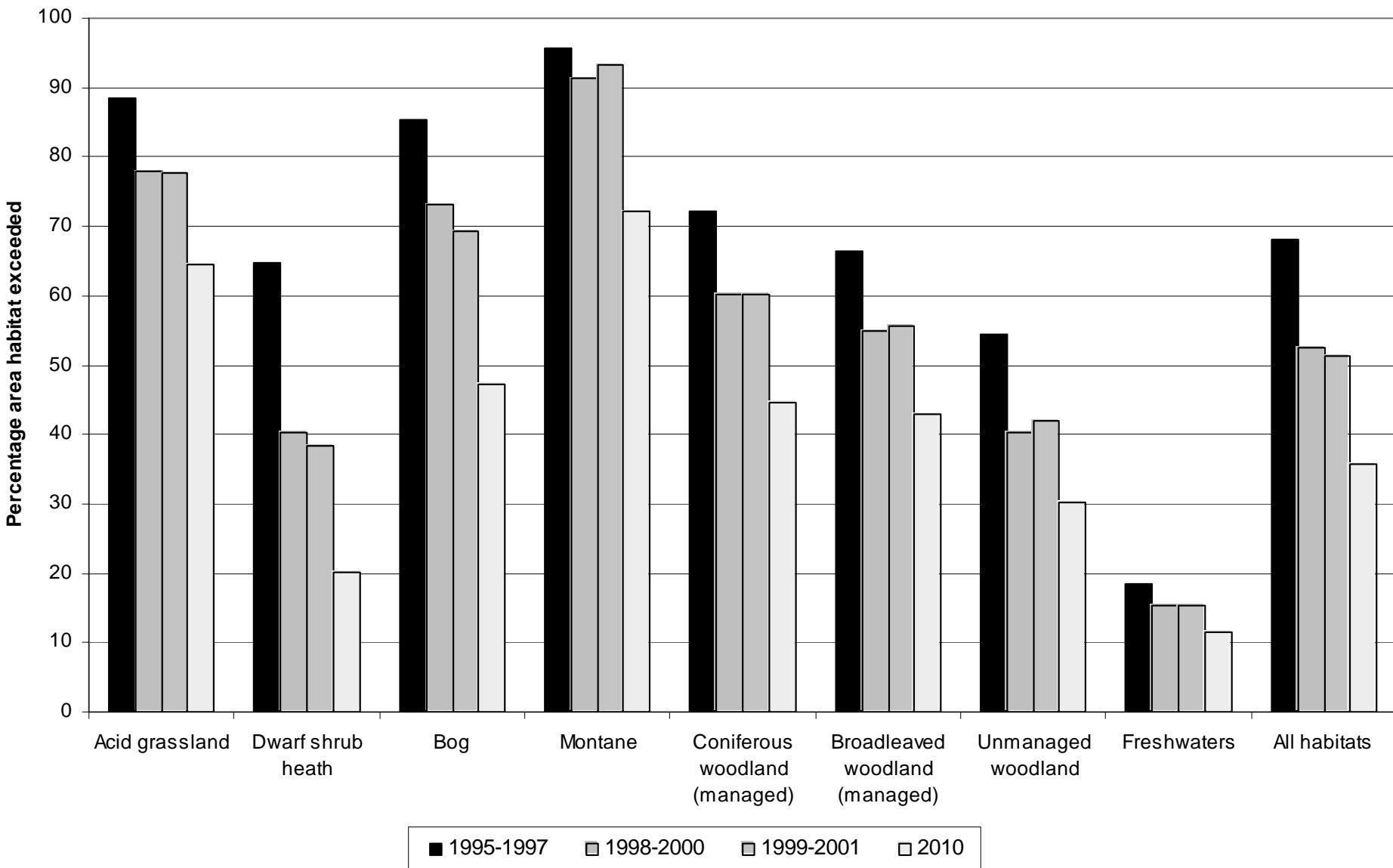


Figure 7.2

### Percentage habitat area exceeded for nutrient N in Scotland

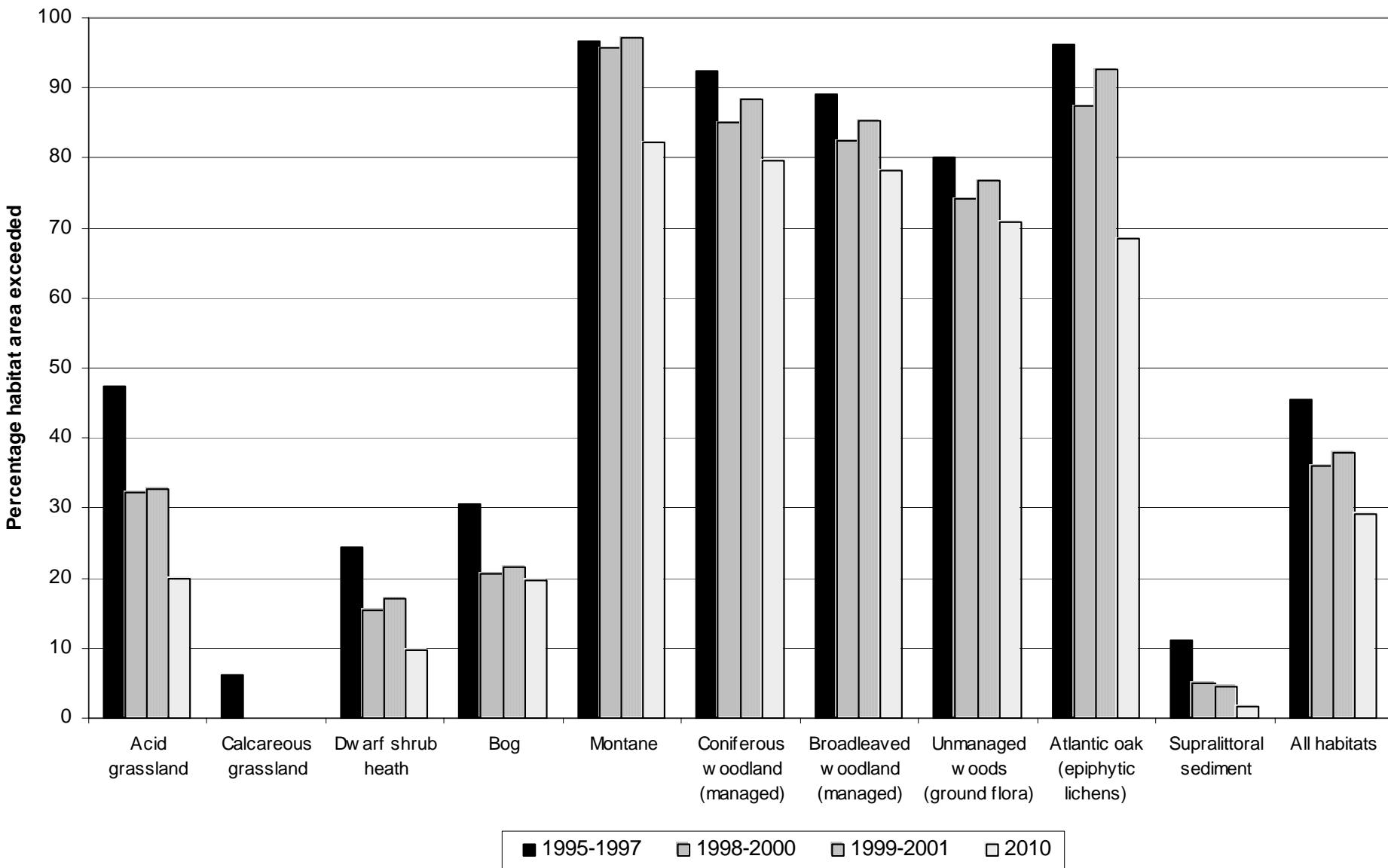


Figure 8.1

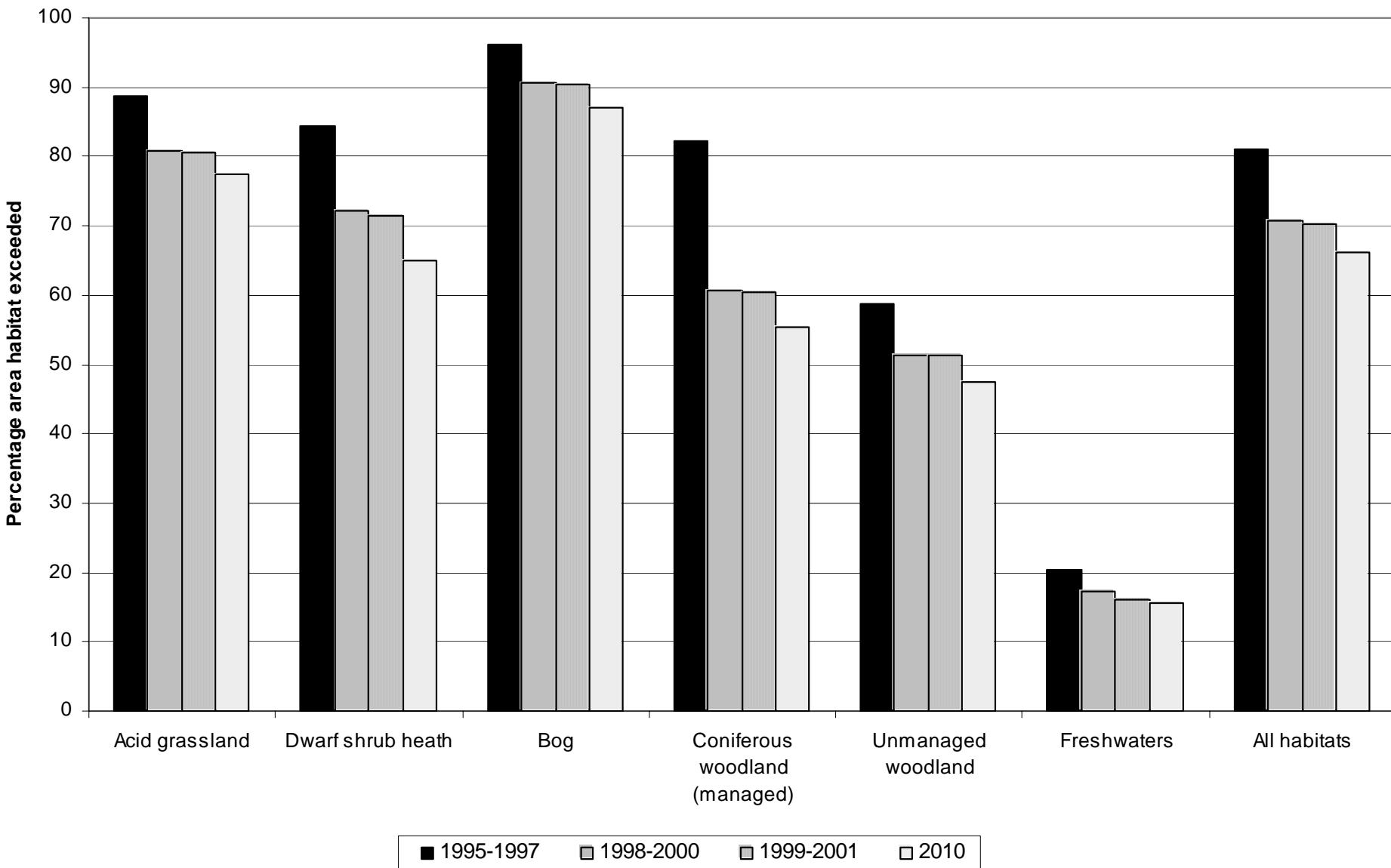
**Percentage area of habitat exceeded for acidity in NI**

Figure 8.2

### Percentage area habitats exceeded for nutrient N in NI

