

Calculating field-specific Crop N Requirement

			Field 1	Field 2	Field 3	Field 4
Prediction	Calculation	Example				
Guideline crop yield	a	9.8t/ha				
Crop N content	b	23kg/t				
Price effect on Crop N Demand	c	-10kg/ha				
Crop N demand	$d = (a \times b) + c$	215kg/ha				
Crop N when soil sampled	e	20kg/ha				
SMN	f	70kg/ha				
Mineralisable N	g	0kg/ha				
Expected Soil N Supply	$h = e + f + g$	90kg/ha				
Crop N shortfall	$j = d - h - 20^*$	105kg/ha				
Fertiliser N recovery	k	60%				
Crop requirement for applied N	$l = j \times 100/k$	175kg/ha				

* increase SNS results by 20kg/ha N to allow for N from atmospheric deposition. Such deposition is factored into *The Fertiliser Manual* and SAC TN625.

For full details on using this table and applying your results see *Nitrogen for winter wheat – management guidelines*, HGCA 2009