

## Mildew, Yellow rust, Brown rust, Septoria tritici, Septoria nodorum

## Variety rating from RL

Disease pressure From maps	Adjustments				
	Mildew	Yellow rust	Brown rust	Septoria tritici	Septoria nodorum
1 Very low	1	1	1	0.5	1
2 Low	0.5	0.5	0.5	0	0.5
3 Moderate	0	0	0	-1	0
4 High	-0.5	-1	-1	-1.5	-1
5 Very high	-1	-2	-2	-2	-2
<b>Yield loss</b>	0.5	0	0	-0.5	-0.5
<b>Cost of control</b>	0	0	0	-0.3	0
Sowing date	Mildew	Yellow rust	Brown rust	Septoria tritici	Septoria nodorum
Mid Sep	-1	-1	0	-1	0
End Sep	-0.5	-0.5	0	-0.5	0
Early Oct	0	0	0	0	0
Mid Oct	0	0	0	0	0
End Oct	0.5	0.5	0.5	0.5	0
November	1	1	1	1	0
Cultivation	Mildew	Yellow rust	Brown rust	Septoria tritici	Septoria nodorum
Plough	0.25	0.25	0	-0.25	0
Min-till	-0.25	-0.25	0	0.25	0

## Risk calculation

Function risk(rating)

rating = Round(rating, 0)

If rating &gt;= 9 Then risk = "Very low"

If rating = 8 Then risk = "Low"

If rating = 7 Then risk = "Low"

If rating = 6 Then risk = "Medium"

If rating = 5 Then risk = "Medium"

If rating = 4 Then risk = "High"

If rating = 3 Then risk = "High"

If rating = 2 Then risk = "Very high"

If rating &lt; 2 Then risk = "Very high"

End Function

**Eyespot**

**Topic sheet scheme**

RL plus scheme

**No variety adjustment for the moment**

		<b>Risk points</b>		<b>RB 209 soil types</b>	
<b>Sowing date</b>	≥ 6 Oct	0		Mid Sep	5
	< 6 Oct	5		End Sep	5
				Early Oct	5
				Mid Oct	0
				End Oct	0
				End Oct	0
				November	0
<b>Tillage</b>	Minimum tillage	0		Min-till	0
	Plough	10		Plough	10
<b>Soil type</b>	Light	0		Light sands	0
	Medium	1		Shallow over s:	0
	Heavy	5		Limestone bras	6
	Brash	6		Other shallow	0
				Medium	1
			Deep clay	5	
			Deep fertile silt	5	
<b>Previous crop</b>	Non cereal	0		Wheat	15
	Other cereal	10		Other cereal	10
	Wheat	15		Peas, beans	0
				Oilseed rape	0
				Rotational seta	0
				Potatoes	0
				Sugar beet	0
<b>Constant (for unkown factors)</b>				7	

		<b>Risk</b>
Total of risk points	< 20	Low
	20	Medium
	29	Medium
	36	High
	40	V High

## Lodging

**Variety** -PGR rating from RL

**SNS index** From RB209

Calculation

SNS index	Stem lodging adjustment	Root lodging adjustment
0	3	1.5
1	1.5	0.75
2	0	0
3	-1.5	-0.75
4 +	-3	-1.5

Sowing date

Mid Sep	-2	-2
End Sep	-1	-1
Early Oct	-0.5	-0.5
Mid Oct	0	0
End Oct	1	1
Nov	2	2

Plant population

< 150	1.5	3
150-200	0.75	1.5
200-300	0	0
300-400	-1	-2
>400	-1.75	-3.5

Root lodging risk = RL score + SNS adjustment + Sowing date + Plant Population

Stem lodging risk = RL score + SNS adjustment + Sowing date + Plant Population

Total score	Risk
< 5	V high
5 - 6.8	High
7 - 8.8	Medium
9 - 10	Low
> 10	V low

Examples

	variety Claire	y-loss	c-cost	sow-date mid sep	soil clay	regional Cambs	p-crop w rape	SNS	p-pop 250	tillage min-till	t-score	Risk
Mildew	4	0.5	0	-1		mod 0.0				-0.25	3	high
Yellow rust	9	0	0	-1		high -1.0				-0.25	7	low
Brown rust	8	0	0	0		high -1.0				0	7	low
Septoria tritici	6	-0.5	-0.3	-1		low 0.0				0.25	4	med
Septoria nodorum	8	-0.5	0	0		mod 0.0				0	8	low
Eyespot			7	5	5		0			0	17	low
Sem lodging	6			-2		l rain		4 -3	0		1	v high
Root lodging	6			-2		l rain		4 -1.5	0		3	v high

	variety Claire	y-loss	c-cost	sow-date end oct	soil med	regional s-west	p-crop wheat	SNS	p-pop 350	tillage plough	t-score	Risk
Mildew	4	0.5	0	0.5		mod 0.0				0.25	5	med
Yellow rust	9	0	0	0.5		low 0.5				0.25	10	low
Brown rust	8	0	0	0.5		low 0.5				0	9	low
Septoria tritici	6	-0.5	-0.3	0.5		high -1.5				-0.25	4	high
Septoria nodorum	8	-0.5	0	0		med 0.0				0	8	low
Eyespot				0	1		15			10	26	med
Sem lodging	6			1		h rain		1 1.5	-1		8	med
Root lodging	6			1		h rain		1 0.75	-2		6	high