

## VARIETY DIVERSIFICATION SCHEME TO REDUCE SPREAD OF YELLOW RUST IN WHEAT, 2012.

Yellow rust can spread between wheat varieties that are susceptible to the same race of the pathogen.

The risk of severe and widespread infection may be reduced by:

- (1) Growing varieties with good resistance to yellow rust (as indicated by high resistance ratings on the HGCA Recommended List)
- (2) Diversifying the varieties grown on the farm to reduce the risk of rust spreading rapidly from one variety to another. This is achieved by using the Variety Diversification Scheme.

### Choosing varieties to grow together

1. Select a first-choice variety and find its Diversification Group (DG).
2. Go to the selection matrix and find this DG under 'Chosen DG' on the left hand side of the table.
3. Read across the table to find the risk of yellow rust spread for each companion DG.

L = low risk

M = moderate risk

H = high risk

VH = very high risk

4. Wherever possible choose low risk combinations of varieties and avoid higher risk combinations.

<b>DG1</b>	<b>DG2a</b>	<b>DG2b</b>	<b>Unclassified*</b>
Alchemy	Battalion	Conqueror	JB-Diego
Beluga	Cordiale	Ketchum	
Claire	Denman	KWS Podium	
Cocoon	Duxford	Solstice	
Crusoe	Einstein	KWS Santiago	
Horatio	Gallant	Torch	
Invicta	Grafton	Viscount	
KWS-Gator	Gravitas	Warrior	
KWS-Sterling	Humber		
KWS-Target			
Panorama			
Relay			
Scout			
Stigg			
Tuxedo			

\* = Further tests in progress

<b>Chosen DG</b>	<b>Companion DG</b>			
	1	2a	2b	Un
<b>1</b>	L	L	L	L
<b>2a</b>	L	M	H	M
<b>2b</b>	L	H	VH	M
<b>Un</b>	L	M	M	M

**Spring wheat** varieties are not allocated to DGs. For purposes of diversification, spring wheat varieties with resistance ratings of 7, 8 or 9 may be regarded as belonging to DG1. Other varieties are unlikely to contribute to diversification.