

## GRDC-NVT Disease Resistance Rating Definitions

### Rusts and Foliar Diseases

A standard disease resistance rating system has been adopted for all crops in all states across Australia. This document helps to explain the values and their implications for growers and advisors.

Standard Disease Ratings		
Rating	Alpha Code	Numeric Code
Resistant (R)	R	9
Resistant – Moderately Resistant (R-MR)	R-MR	8
Moderately Resistant	MR	7
Moderately Resistant – Moderately Susceptible	MR-MS	6
Moderately Susceptible	MS	5
Moderately Susceptible – Susceptible	MS-S	4
Susceptible	S	3
Susceptible – Very Susceptible	S-VS	2
Very Susceptible	VS	1



Rating	Management Option Description	For Growers: What do I see?	For Growers: What do I do?
Resistant	Disease may be found but will be at such a level that no economic management is required, even in instances of high disease pressure.	Trace levels of disease may be found.	No economic management decisions required.
Moderately Resistant	Disease may be observed but no economic management decisions will be required. Preventative sprays not necessary but disease should be monitored. Management of seed quality may be required.	The disease may be observed at very low levels.	No economic management decisions required. Monitor crops for disease development.
Moderately Susceptible	In the presence of inoculum and in seasons conducive to disease, the disease will be seen more readily when inspecting the crop. If the disease appears early in the season then an economic management decision (preventative spray) may be appropriate. Later occurrence of the disease may not require any action. Management of seed quality will be required.	In the presence of inoculum, the disease will be seen more readily when inspecting the crop. The disease will be seen more readily when inspecting the crop.	Monitor crops for disease development. In the presence of inoculum and in seasons conducive to disease, an economic management decision may be appropriate (e.g. preventative spray). Later occurrence of the disease may not require any action.
Susceptible	The disease will be easily found in the crop. Management decisions will be required to reduce yield loss and will most probably be economic to do so. Management of seed quality will be required.	In the presence of inoculum, the disease will often be easily found in the crop. The disease will be observed readily in the crop.	Management decisions will be required to reduce yield loss and will most probably be economic to do so.
Very Susceptible	Do not grow this variety if the disease in question is a regular occurrence or risk. The variety in question can be a complete loss if sown and no disease management is applied.	The disease will be observed readily in the crop.	If this variety is to be grown in areas at risk of disease development additional management strategies are essential.

