Research

Sorghum Charcoal Rot and Lodging Survey
Introduction

This survey is designed to help gather information on the incidence of charcoal rot occurring in sorghum paddocks as observed by agronomists and growers to provide USQ and GRDC with data that will be useful in formulating new research into this disease and assist in providing useful data to help design integrated disease management strategies for sorghum growers.

Agronomists are asked to fill out this two-page form as completely possible. These data will not be made publicly available or shared other than USQ and GRDC for research purposes. All results will be anonymised with no growers’ locations, names or agronomists names being revealed.

Front cover: Dr Precila Gonzales USQ-CCH (L) with Mr Graham Cooke (R), a grower from Jondaryan, Queensland, in his paddock where soil sampling for PreDicta®B test sampling methods and test calibration for Macrophomina phaseolina was performed in early 2018.
USQ Charcoal Rot Survey Form

Agronomist’s Name: ___________________________ Phone Number: ___________________________

Date (YYYY-MM-DD): ___________________________

Paddock ID*: __________________________________ Nearest Town: ___________________________

*Select something meaningful that you will recall if we contact you again for questions regarding the paddock’s data

Paddock location: ___________________________ GPS Coordinates (if available): ___________________________

Region (please check one): _____CQ _____SQ _____NNSW

Crop: ___________________________ Variety: ___________________________

Date of Sowing (YYYY-MM-DD): ___________________________ Area Planted (ha): ___________________________

Percent Lodged** (current crop) ______ Percent charcoal rot if known*** (current crop) _______

** If possible, count 100 plants total, recording the number lodged out of 100. Else estimate percent total paddock area affected.

*** Split stalks open of 100 plants while counting lodging and inspect for charcoal rot signs, e.g. ash grey tissue, peppered appearance.

Date Harvested (YYYY-MM-DD): ___________________________

Expected yield (t/ha): ___________________________ Actual yield (t/ha): ___________________________

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Landform (Irrigated or Dryland): ___________________________

Fertiliser rates (kg/ha): _____ N _____ P _____ K

Soil moisture: ___________________________

Soil nutrient analysis: ___________________________

PreDicta®B (pop. level pre-sowing): ___________________________

PreDicta®B (pop. level post-harvest): ___________________________

Included yield maps if available (please provide filename for our reference): ___________________________

Table 1. Previous crops and charcoal rot and lodging observations, if available. Please provide to the best of your ability if possible.

<table>
<thead>
<tr>
<th>PREVIOUS YEAR</th>
<th>CROP</th>
<th>CHARCOAL ROT OBSERVED (%)</th>
<th>CROP LODGING (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 YEARS AGO</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 YEARS AGO</td>
<td></td>
<td></td>
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<tr>
<td>4 YEARS AGO</td>
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</tbody>
</table>

Other disease observed (if known): ___________________________

Contact: Dante L. Adorada  
University of Southern Queensland  Centre for Crop Health  
Toowoomba Qld 4350  
T: 0477 718 593   E: dante.adorada@usq.edu.au