



# Research

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## *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):** \_\_\_\_\_

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.

	CROP	CHARCOAL ROT OBSERVED (%)	CROP LODGING (%)
<b>PREVIOUS YEAR</b>			
<b>2 YEARS AGO</b>			
<b>3 YEARS AGO</b>			
<b>4 YEARS AGO</b>			

Other disease observed (if known): \_\_\_\_\_

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