Form 101 Broadacre Plant Disease Diagnosis

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | | Contact details of party responsible for all charges | | | | | | | | | | | | | | | | |
|  |  | | | | | | | | | | | | | | | | | |  |
|  |  | Submitter name | | |  | | | | | | | Phone | |  | | | | |  |
|  |  | | | | | | | | | | | | | | | | | |  |
|  |  | Address | |  | | | | | Suburb | | | |  | | | Postcode | |  |  |
|  |  | | | | | | | | | | | | | | | | | |  |
|  |  | Trading name | | |  | | | | | | ABN | | | |  | | | |  |
|  |  |  | | | | | | | | | | | | | | | | | |
|  |  | DPIRD Project Cost Code | | | |  | | | | |  | | | | | | | | |
|  |  |  | | | | | | | | | | | | | | | | | |
|  |  | E-mail | |  | | | | | | CRIS ID / Property ID Code | | | | |  | | | |  |
|  |  | | | | | | | | | | | | | | | | | | |
|  |  | Mobile | |  | | | Signature |  | | | | | | | Date | |  | |  |
|  |  | | | | | | | | | | | | | | | | | | |

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| B | Duplicate copy to another party | | | | | | | | Collected by | | | | |
|  | | | | | | | | |  | | | | |
|  | | | | | | | | |  | | | | |
| Name | |  | | | | | |  | Name | |  | |  |
|  | | | | | | | | |  | | | | |
| E-mail | |  | | | | | |  | E-mail | | |  |  |
|  | | | | | | | | |  | | | | |
| Phone | |  | | | | | |  | Phone | |  | |  |
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| C | Type of sample | | | Seed | | | | | | Whole Plant | | | | | | Leaves | | Roots | | Soil | Tops | |
|  |  | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | |
| Crop species | |  | | | | | Cultivar | | | | | |  | | | | Sowing date | | |  | |  |
|  | | | | | | | | | | | | | | | | | | | | | | |
| Sample ID | |  | | | | | | | | | | | | | | | | | For best results despatch sample on Mon-Wed | | | |
|  | | | | | | | | | | | | | | | | | | |
| Number of samples | | |  | | |  | | | Sampling date | | | | | |  | | | |
|  | | |  | |  | | |  | |  |  |  | |  | | | | | | | |  |

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| D | Describe the problem (include descriptions of different samples, e.g. affected / unaffected) | | | | | | | | | | | | | |
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|  | | | | | | | | | | | | | | |
| Distribution is: | | Uniform across paddock | | | | | | | Scattered | | | Patches < 3m | Patches > 3m |  |
|  | | | | | | | | | | | | | | |
| Proportion of paddock affected | | |  | | |  | | | Value of crop production (optional) | | | | $ |  |
|  | | |  |  |  | |  |  | |  |  | | | |  |

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|  | **Protecting agricultural industries**  Free test (**x**)  I believe this pest is a new threat  to Western Australia  to this region of the state |  |

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| E | | Production details | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | |
|  | **Soil type** | | | | **Tillage (current season)** | | | **Comments** | | | | |  | |
|  | | | | | | | | | | | | | | |
|  | Light (sand / sandy loam) | | | | Pre-plant | | |  | | | | |  | |
|  | | | | | | | | | | | | | | |
|  | Medium (loamy) | | | | Conventional | | |  | | | | |  | |
|  | | | | | | | | | | | | | | |
|  | Heavy (clay / clay loam) | | | | Min-till full cut | | |  | | | | |  | |
|  | | | | | | | | | | | | | | |
|  | Gravel | | | | Min-till knife point / or disc | | |  | | | | |  | |
|  | | | | | | | | | | | | | | |
|  | Duplex < 30cm to clay | | | | Other (e.g. deep ripped) | | |  | | | | |  | |
|  | | | | | | | | | | | | | | |
|  | Duplex > 30cm to clay | | | | **Paddock treatment (current season)** | | | | | | | |  | |
|  | | | | | | | | | | | | | | |
|  | Free draining | | | | Treatment  (Fertiliser, spray etc.) |  | Date | |  | Pre, at or post planting |  | Rate / ha | |  |
|  | | | | | | | | | | | | | | |
|  | Prone to water logging | | | |  |  |  | |  |  |  |  |  | |
|  | | | | | | | | | | | | | | |
|  | pH in CaCl2 | |  |  |  |  |  | |  |  |  |  |  | |
|  | | | | | | | | | | | | | | |
|  | pH in H2O | |  |  |  |  |  | |  |  |  |  |  | |
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|  | **Paddock rotation** | | |  |  |  |  | |  |  |  |  |  | |
|  | | | | | | | | | | | | | | |
|  | Last year | |  |  |  |  |  | |  |  |  |  |  | |
|  | | | | | | | | | | | | | | |
|  | 2 years ago | |  |  |  |  |  | |  |  |  |  |  | |
|  | | | | | | | | | | | | | | |
|  | 3 years ago | |  |  |  |  |  | |  |  |  |  |  | |
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| F | | Seasonal conditions that may be relevant to the symptoms. Check appropriate box for each month. | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | |
|  |  | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |  |
|  | | | | | | | | | | | | | | | |
|  | Frost | |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | | | | | | | | | | | | | | |
|  | Dry | |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | | | | | | | | | | | | | | |
|  | Good | |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | | | | | | | | | | | | | | |
|  | Wet | |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | Additional comments | | | | | | | | | | | | | |  |
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Delivery Instructions

Samples can be delivered in person or addressed to:

DPIRD Diagnostics and Laboratory Services  
DDLS Specimen Reception, Interim Lab, Building 102  
Department of Primary Industries and Regional Development  
3 Baron-Hay Court  
South Perth WA 6151

This form is available on the DDLS Plant Pathology home page  
<https://www.agric.wa.gov.au/bacteria/ddls-plant-pathology-services>

Sampling for Broadacre Disease Diagnosis

Please follow these guidelines to ensure you send the most appropriate plant or soil samples for accurate and timely disease diagnosis.

* Take fresh samples, keep them cool and out of direct sunlight.
* Label sample bags clearly with a permanent marker.
* Submit affected and unaffected plants packaged and labelled separately (e.g. inside, outside and boundary of affected areas).
* Submit at least 10 whole plants, or 20 seedlings.
* Send samples as per instructions below.
* Avoid sending samples on a Thursday or Friday otherwise refrigerate until despatched the following week.
* Label the parcel ‘Urgent plant samples - keep cool’.
* Complete the Broadacre Plant Disease Diagnosis Submission Form (Form 101).
* Complete a separate form for each species.

**Whole plant or root samples**

Pasture plants

* Collect as sod samples (20 x 20 cm), to 5-10 cm depth.
* Seal in a plastic bag, without removing the soil from the sample.

Crop plants

* Submit whole plants, unless it is clearly a leaf disease.
* Dig up plants so that the roots remain intact. Do not pull the plants from the soil.
* Leave the soil on the roots to keep the plants alive during transit. Washed roots will rot while in transit.
* Seal roots and soil in a plastic bag near the base of the plants. Enclose the whole sample inside another plastic bag (Figure 1).
* Enclose seedlings in one bag.

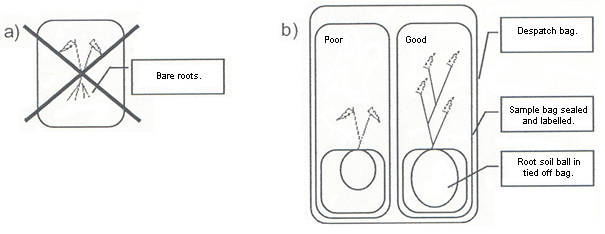


Figure 1 a) incorrect and   
b) correct sampling and packaging.

**Leaf samples**

Fungal / bacterial diseases

* Wrap cereal leaves in paper or enclose in a paper envelope. Do not send in plastic.
* Seal pulse or oilseed leaves in a plastic bag.

Viral diseases

* Collect new growth or whole shoots.
* Seal samples immediately in a plastic bag to prevent wilting.
* Package to avoid leaves getting squashed.

**Soil samples for detection of Nematodes, or Pleiochaeta spore counts**

Nematodes (moist soils) and Pleiochaeta spore counts

* Use a soil corer (e.g. pogo stick) to sample 0-10 cm (0-4").
* Remove surface debris in the area to be sampled.
* Sample soil for nematodes at 6-12 locations towards the margin of poor growth areas.
* Or collect 40 soil samples from wide paddock areas.
* Place in a bucket and mix thoroughly.
* Remove a 500g sample and seal in a plastic bag. Label the bag.

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